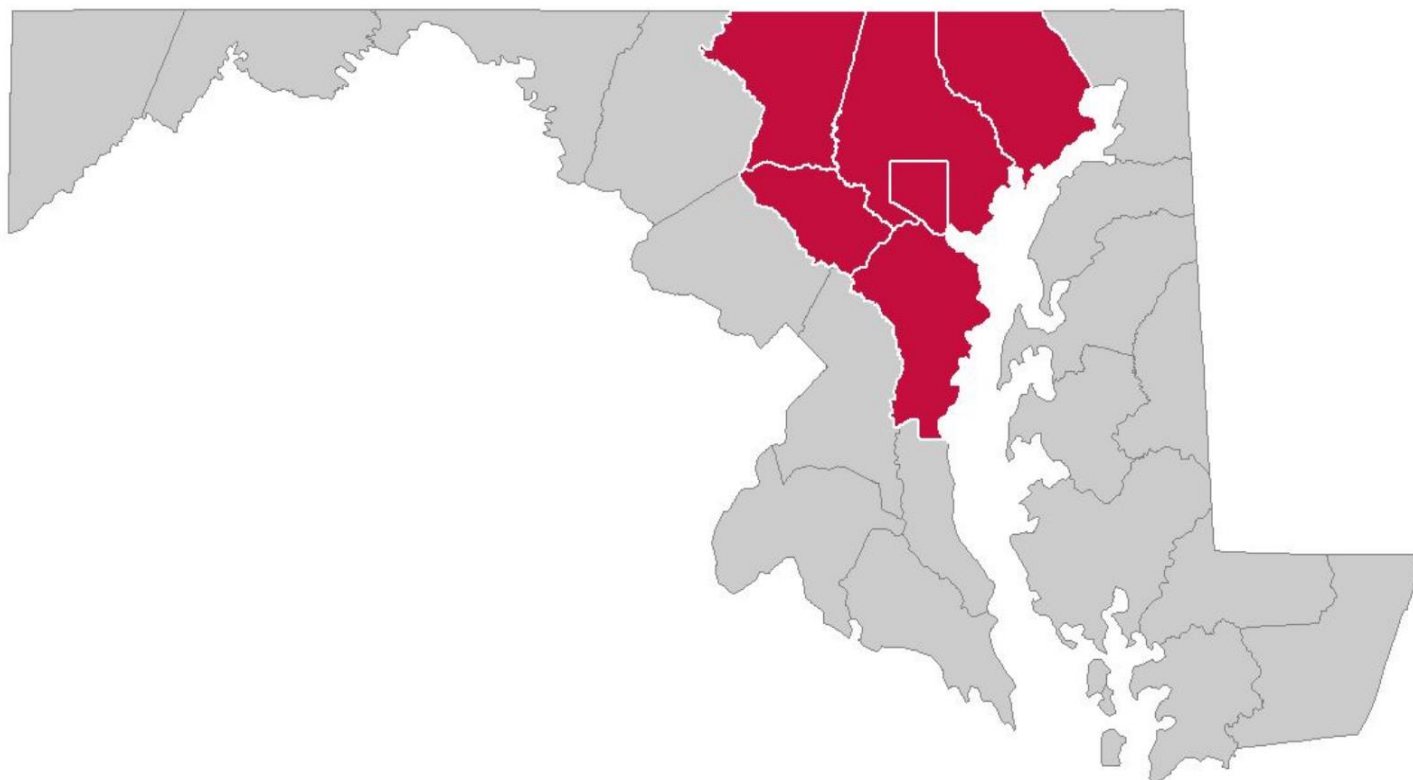


# 2018



## Central Region Annual HIV Epidemiological Profile

Data reported through June 30, 2019



Center for HIV Surveillance, Epidemiology and Evaluation  
Infectious Disease Prevention and Health Services Bureau  
Prevention and Health Promotion Administration  
<http://phpa.health.maryland.gov/OIDEOR/CHSE>  
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This report was prepared by the following CHSEE staff: Alyssa Arey, Morgan Boyer, James Carrier, Colin Flynn, Molly Gribbin, Trevor Hsu, Amber Lee and Jami Stockdale.

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## Section I – Background Information

### HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that people living with HIV be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to mothers living with HIV within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phone numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

### For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

### Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

**HIV Incidence:** The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.2 percent for the United States and 13.8 percent for Maryland in 2016. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2017.

**Maryland Residence:** This epidemiological profile provides estimates of people living with diagnosed HIV in Maryland by their residence as of December 31, 2018. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years

presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care during the most recent ten and a half years. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

Maryland Residence – Correctional Facilities: People living with diagnosed HIV who were reported to be residing in a state or federal prison as of December 31, 2018 will be presented in the Maryland epidemiological profile only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers. Individuals diagnosed or previously identified as residing in a correctional facility, whose most recent reported residential address indicates they were not residing in a state/federal correctional facility as of December 31, 2018, are included with estimates of people who are not incarcerated. The movement of persons between Maryland correctional facilities is not reflected in this report.

Gender Identity: This epidemiological profile describes gender expansive people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Historically, it has been difficult to fully present data by gender identity. Data on gender expansive people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number gender expansive people living with diagnosed HIV because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Race/Ethnicity: The completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial people living with diagnosed HIV because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

Foreign-Born Maryland Residents: The completeness of reporting a person's country of birth is variable in surveillance data. Not all agencies collect or have complete data on nativity. In addition, some individuals may immigrate to the U.S. with HIV. HIV testing data from other countries is often unavailable for these people; therefore, they are counted as a new diagnosis following their first HIV related lab test in the United States, even if they were first diagnosed elsewhere.

Mortality: Mortality (death) data is presented in this epidemiological profile. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Viral Suppression: In this epidemiological profile, viral suppression is defined as the most recent viral load measured in the specified year of less than 200 copies per milliliter. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

## Changes in Terminology

The terminology for HIV and AIDS surveillance data was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and People Living with Diagnosed HIV replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed individuals as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31<sup>st</sup> of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the

Reported HIV Diagnoses for 2018 are the total number of people diagnosed with HIV from January 1, 2018 to December 31, 2018, as reported by name through June 30, 2019.

To calculate the number of people living with diagnosed HIV, we count all reported diagnoses from the beginning of the epidemic (all new diagnoses each year) and subtract all reported deaths. For example, the total people living with diagnosed HIV on December 31, 2018 are the total reported HIV diagnoses not reported to have died as of December 31, 2018 as reported by name through June 30, 2019.

## Stages of HIV Surveillance

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can contract HIV but never be screened for HIV and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the health department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

An instance of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9] but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV transmission [time point 1].

## Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent. Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

## Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, as of June 30, 2019.

Population data by sex, age, and race/ethnicity are from the July 1, 2018 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2017 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

## Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

## Data Suppression

In order to protect the confidentiality of people living with diagnosed HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

## HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

**MSM/IDU:** Men who report a history of sexual contact with other men who also have engaged in injection drug use.

**Male-to-male Sexual Contact (MSM):** Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

**Injection Drug Use (IDU):** Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

**Heterosexual Contact (HET):** Men or women who report a history of sexual contact with a person of the opposite sex who is known to be HIV positive or at increased risk for HIV transmission. Risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue, and artificial insemination.

**Perinatal Exposure:** Any baby born to a woman living with diagnosed HIV.

**Other Exposure:** Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

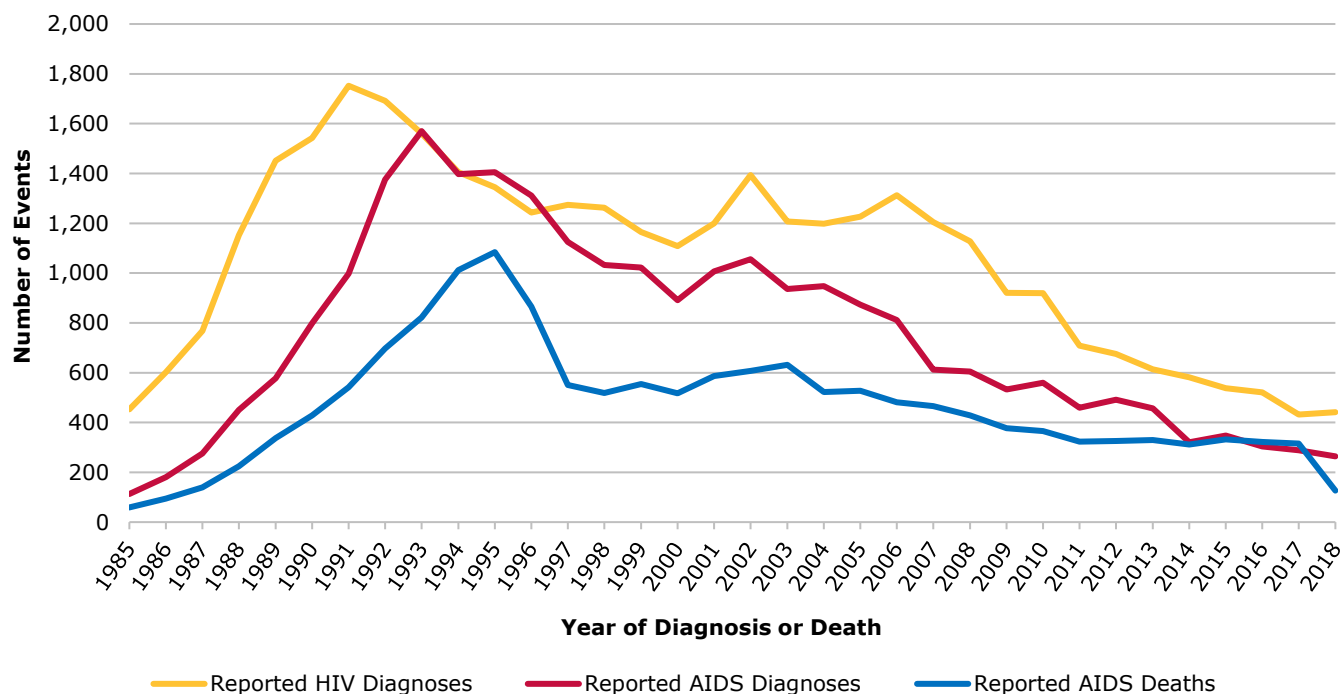
Not all exposure data is reported and is therefore missing in some instances. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual person as well as data in aggregate from other people living with diagnosed HIV in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.



## Section II – Trends 1985-2018

**Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019**

People Diagnosed with HIV (Reported HIV Diagnoses) by Year of HIV Diagnosis, People Diagnosed with HIV with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and People Diagnosed with HIV with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2018, as Reported through June 30, 2019

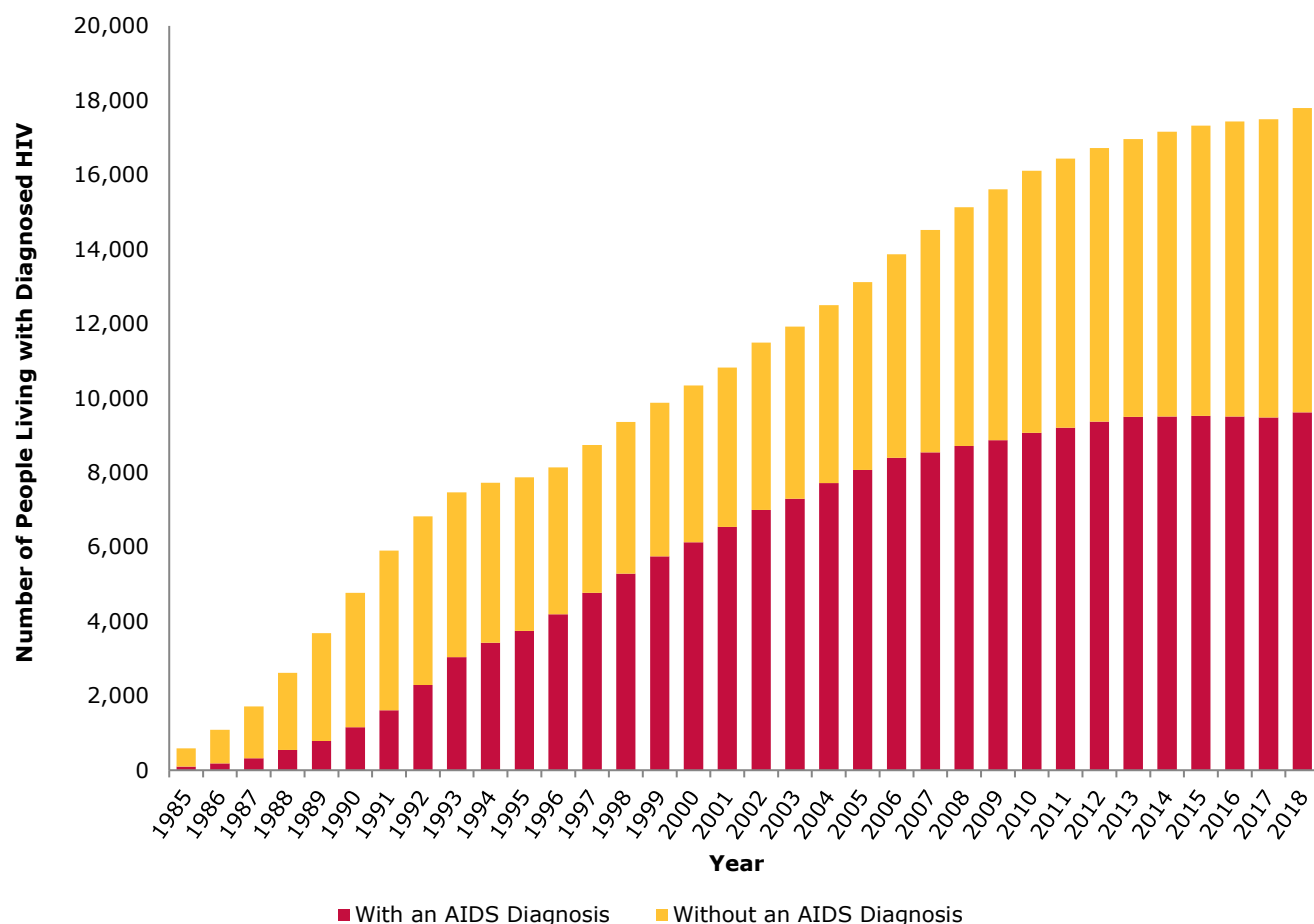


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	237	77	35	2002	1,394	1,055	607
1985	453	113	59	2003	1,207	936	631
1986	602	181	94	2004	1,198	947	522
1987	768	275	140	2005	1,226	873	528
1988	1,152	450	224	2006	1,313	811	481
1989	1,451	577	337	2007	1,204	612	466
1990	1,542	799	428	2008	1,127	604	429
1991	1,752	998	541	2009	920	532	377
1992	1,691	1,376	697	2010	919	560	365
1993	1,561	1,570	822	2011	708	459	323
1994	1,405	1,397	1,012	2012	675	492	326
1995	1,345	1,405	1,084	2013	614	457	329
1996	1,243	1,311	866	2014	582	320	311
1997	1,274	1,125	551	2015	538	348	332
1998	1,263	1,032	519	2016	521	304	322
1999	1,165	1,022	554	2017*	432	289	316
2000	1,108	891	517	2018*	442	264	126
2001	1,200	1,007	586	Total	36,232	25,469	15,857

\*2017-2018 reported AIDS deaths are preliminary

**Figure 2 – Trends in People Living with Diagnosed HIV, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019**

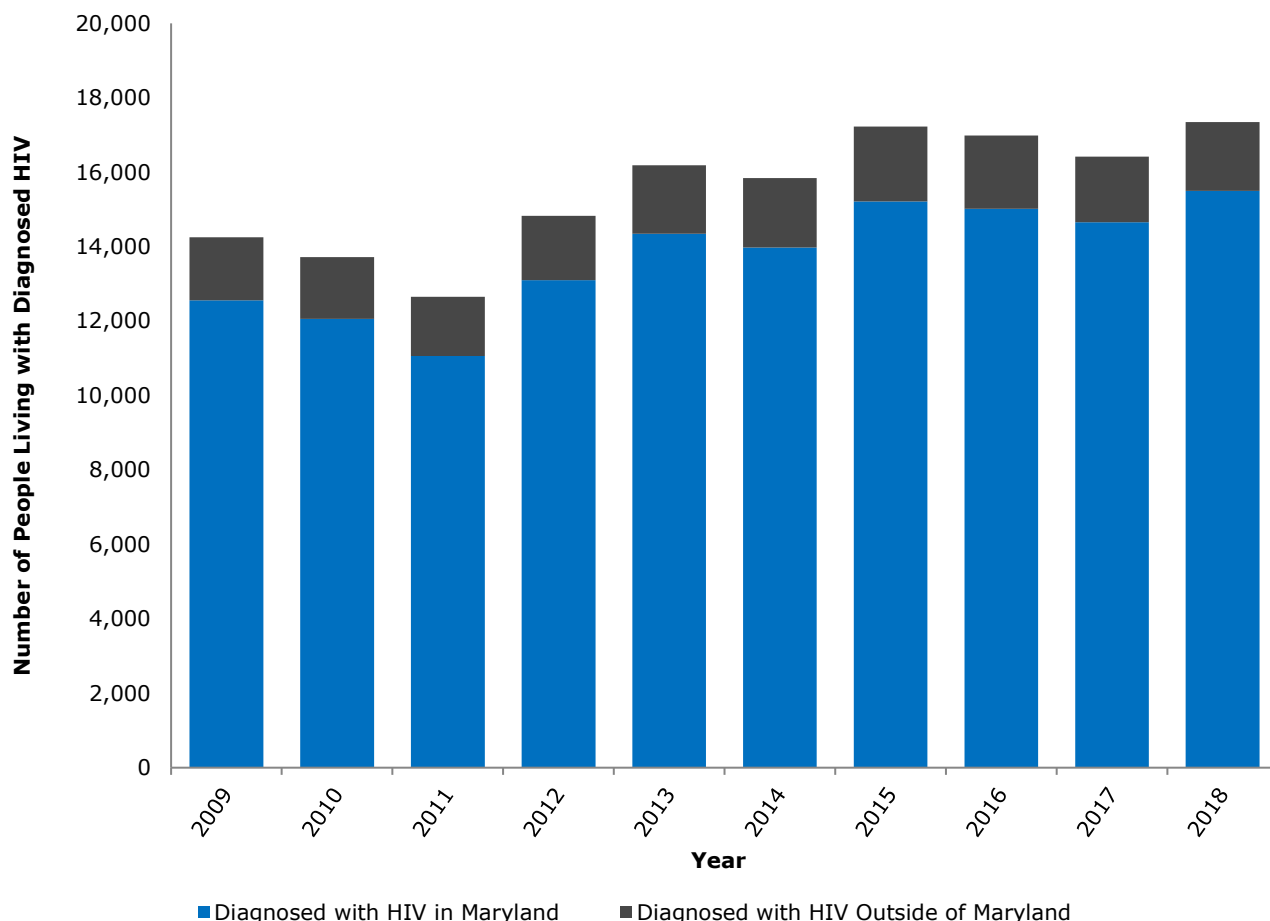
People Living with Diagnosed HIV and Not Reported to have Died as of December 31<sup>st</sup> of Each Year (People Living with Diagnosed HIV without an AIDS Diagnosis, People Living with Diagnosed HIV with an AIDS Diagnosis, and Total People Living with Diagnosed HIV) from 1985 through 2018, as Reported through June 30, 2019



People Living with Diagnosed HIV				People Living with Diagnosed HIV			
Year	without an AIDS Diagnosis	with an AIDS Diagnosis	Total	Year	without an AIDS Diagnosis	with an AIDS Diagnosis	Total
1985	493	96	589	2002	4,498	6,990	11,488
1986	906	183	1,089	2003	4,625	7,295	11,920
1987	1,392	319	1,711	2004	4,780	7,720	12,500
1988	2,075	545	2,620	2005	5,048	8,065	13,113
1989	2,900	785	3,685	2006	5,465	8,395	13,860
1990	3,608	1,156	4,764	2007	5,976	8,541	14,517
1991	4,289	1,613	5,902	2008	6,415	8,716	15,131
1992	4,530	2,292	6,822	2009	6,741	8,871	15,612
1993	4,423	3,040	7,463	2010	7,040	9,066	16,106
1994	4,300	3,426	7,726	2011	7,234	9,202	16,436
1995	4,120	3,747	7,867	2012	7,354	9,368	16,722
1996	3,943	4,192	8,135	2013	7,466	9,496	16,962
1997	3,972	4,766	8,738	2014	7,651	9,505	17,156
1998	4,080	5,279	9,359	2015	7,799	9,521	17,320
1999	4,123	5,747	9,870	2016	7,929	9,503	17,432
2000	4,214	6,121	10,335	2017	8,020	9,476	17,496
2001	4,280	6,542	10,822	2018	8,179	9,614	17,793

**Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, Among Current Residents, 2009-2018, Reported through June 30, 2019**

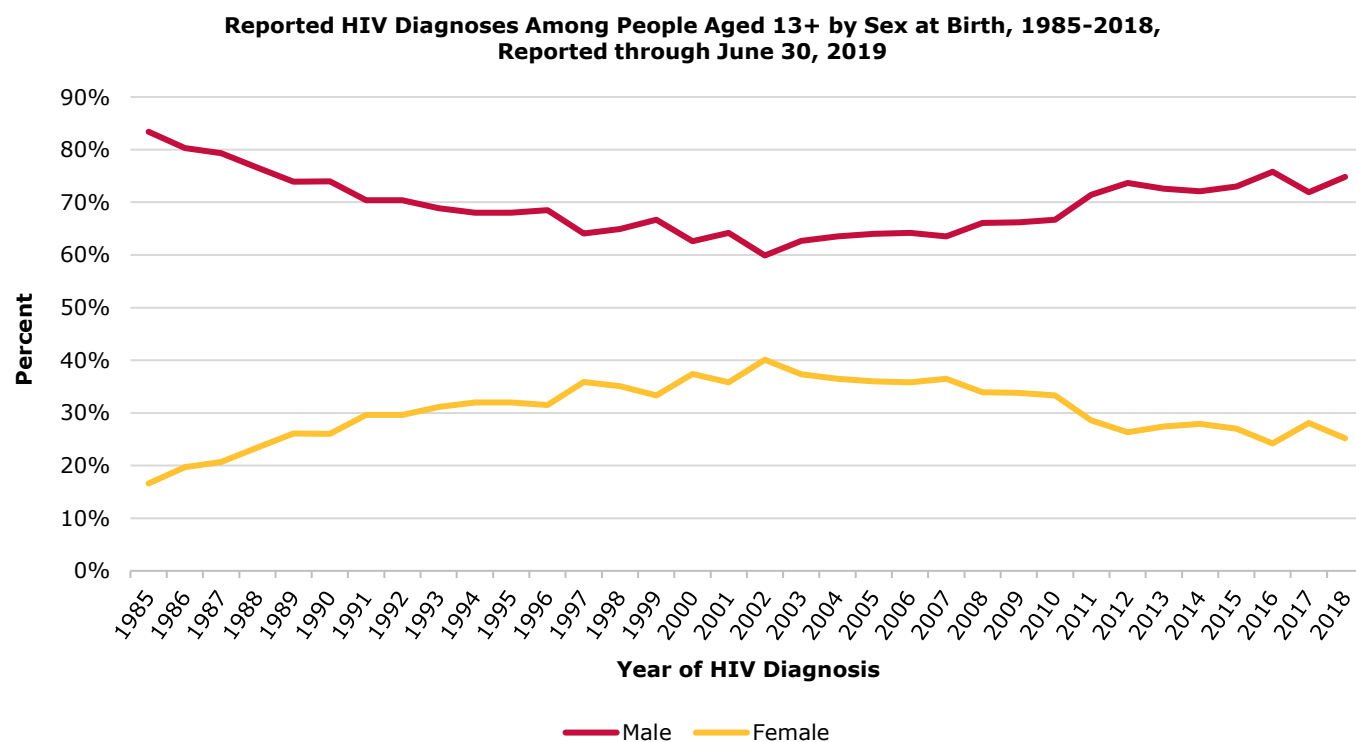
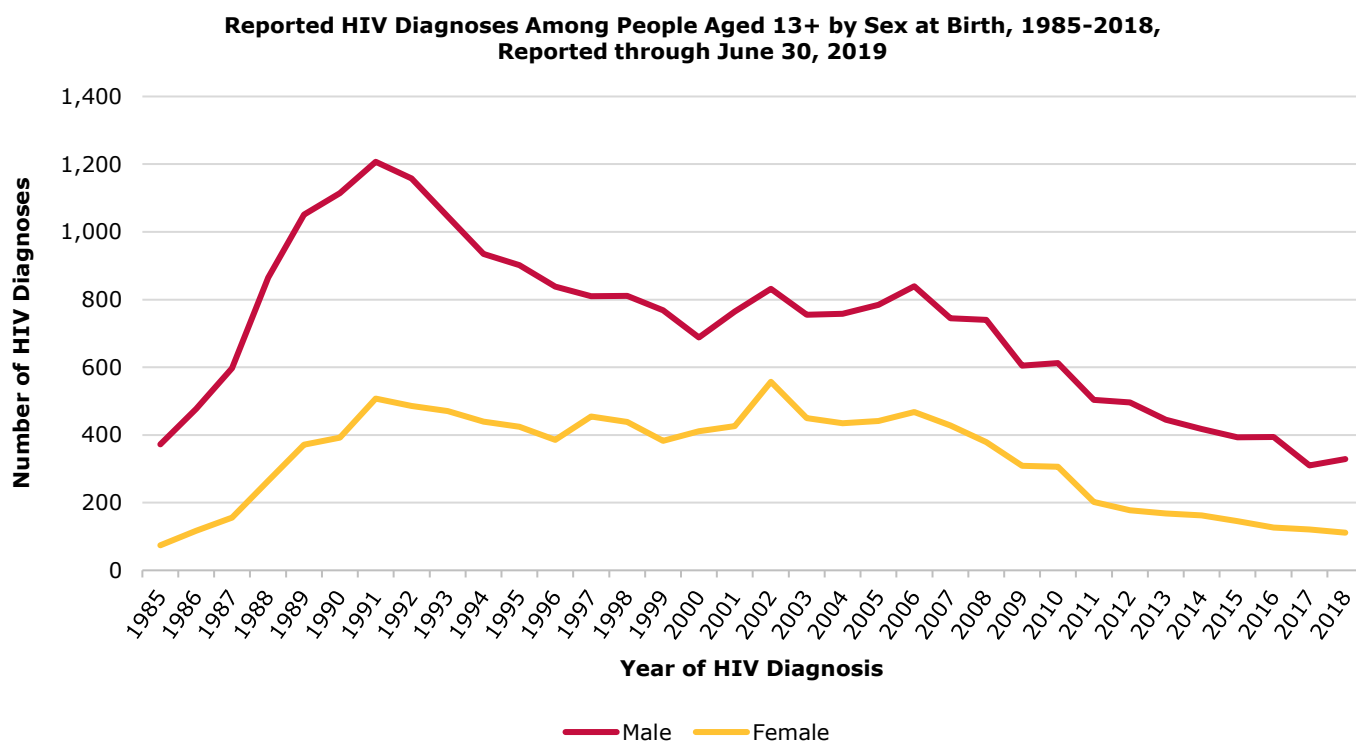
People Living with Diagnosed HIV in the Central Region and Not Reported to have Died as of December 31<sup>st</sup> of Each Year from 2009 through 2018, as Reported through June 30, 2019



Year	Population Age 13+	Central Region Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2009	2,215,178	12,560	1,688	14,248	643.2
2010	2,234,249	12,060	1,655	13,715	613.9
2011	2,250,924	11,064	1,592	12,656	562.3
2012	2,270,098	13,101	1,725	14,826	653.1
2013	2,283,561	14,348	1,837	16,185	708.8
2014	2,295,366	13,976	1,863	15,839	690.0
2015	2,305,581	15,217	2,007	17,224	747.1
2016	2,310,293	15,021	1,965	16,986	735.2
2017	2,314,911	14,657	1,763	16,420	709.3
2018	2,319,489	15,496	1,850	17,346	747.8

## Figure 4 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2018, Reported through June 30, 2019

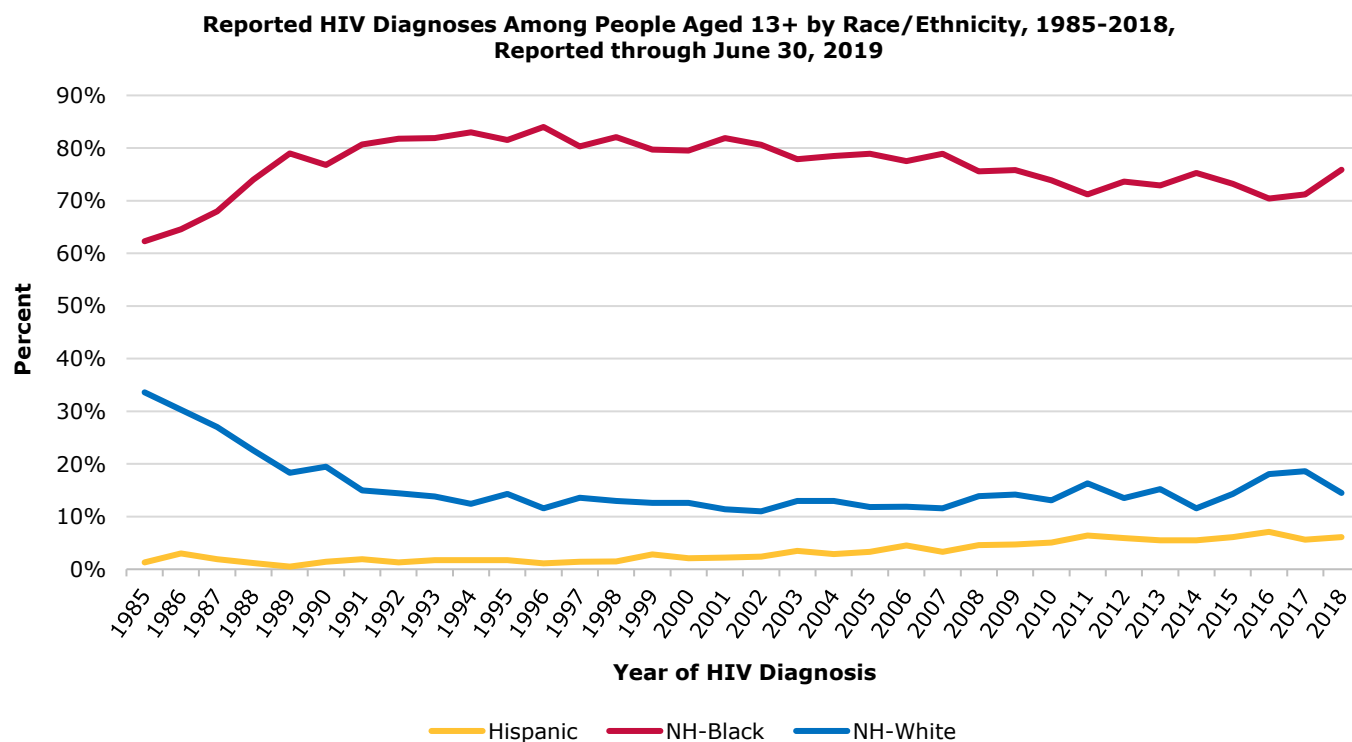
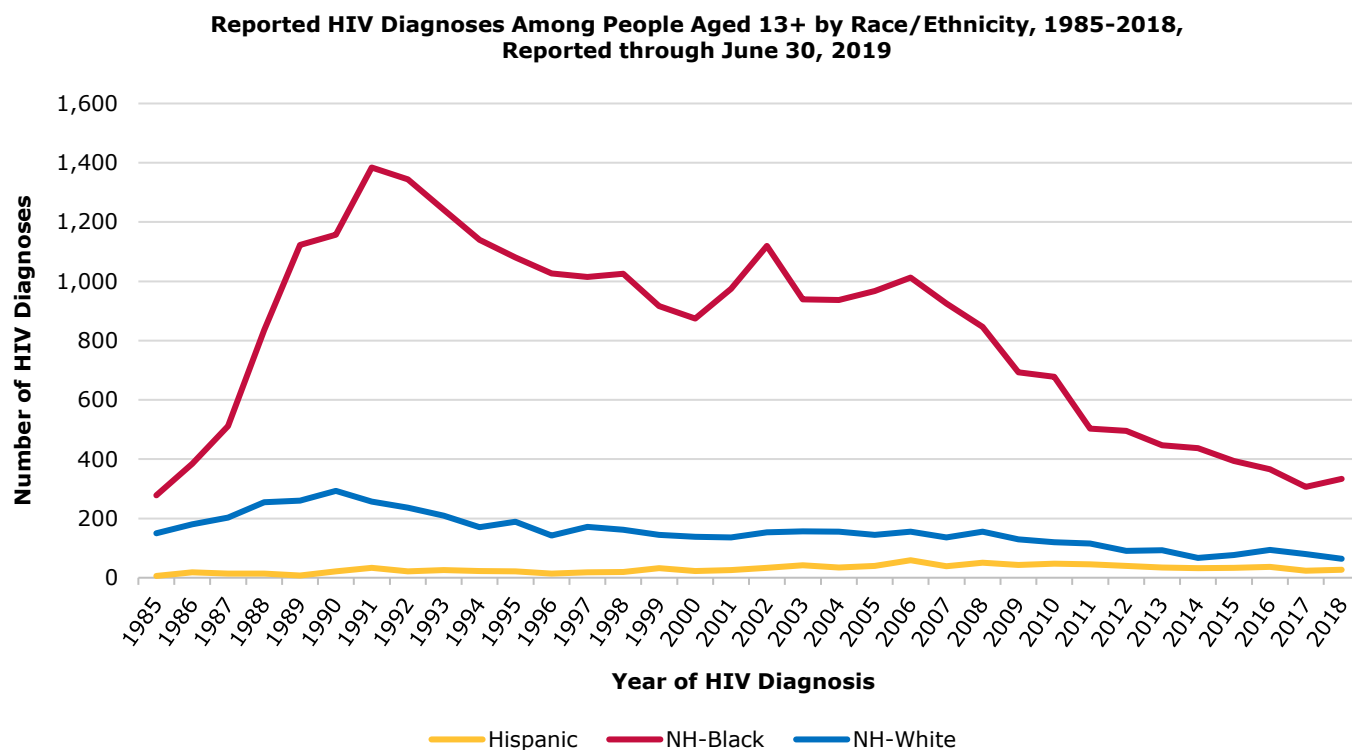
Number and Percent by Sex at Birth of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



Reported HIV Diagnoses Among People Aged 13+					
Year of HIV Diagnosis	Number	Sex at Birth			
		Male		Female	
		Number	Percent	Number	Percent
<1985	235	204	86.8%	31	13.2%
1985	446	372	83.4%	74	16.6%
1986	594	477	80.3%	117	19.7%
1987	753	597	79.3%	156	20.7%
1988	1,129	865	76.6%	264	23.4%
1989	1,422	1,051	73.9%	371	26.1%
1990	1,506	1,114	74.0%	392	26.0%
1991	1,714	1,207	70.4%	507	29.6%
1992	1,644	1,158	70.4%	486	29.6%
1993	1,516	1,045	68.9%	471	31.1%
1994	1,374	935	68.0%	439	32.0%
1995	1,326	902	68.0%	424	32.0%
1996	1,223	838	68.5%	385	31.5%
1997	1,264	810	64.1%	454	35.9%
1998	1,249	811	64.9%	438	35.1%
1999	1,151	768	66.7%	383	33.3%
2000	1,099	688	62.6%	411	37.4%
2001	1,191	765	64.2%	426	35.8%
2002	1,389	832	59.9%	557	40.1%
2003	1,205	755	62.7%	450	37.3%
2004	1,193	758	63.5%	435	36.5%
2005	1,225	784	64.0%	441	36.0%
2006	1,307	839	64.2%	468	35.8%
2007	1,173	745	63.5%	428	36.5%
2008	1,119	740	66.1%	379	33.9%
2009	914	605	66.2%	309	33.8%
2010	918	612	66.7%	306	33.3%
2011	706	504	71.4%	202	28.6%
2012	673	496	73.7%	177	26.3%
2013	613	445	72.6%	168	27.4%
2014	580	418	72.1%	162	27.9%
2015	538	393	73.0%	145	27.0%
2016	520	394	75.8%	126	24.2%
2017	431	310	71.9%	121	28.1%
2018	440	329	74.8%	111	25.2%
Total	35,780	24,566	68.7%	11,214	31.3%

**Figure 5 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2018, Reported through June 30, 2019**

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



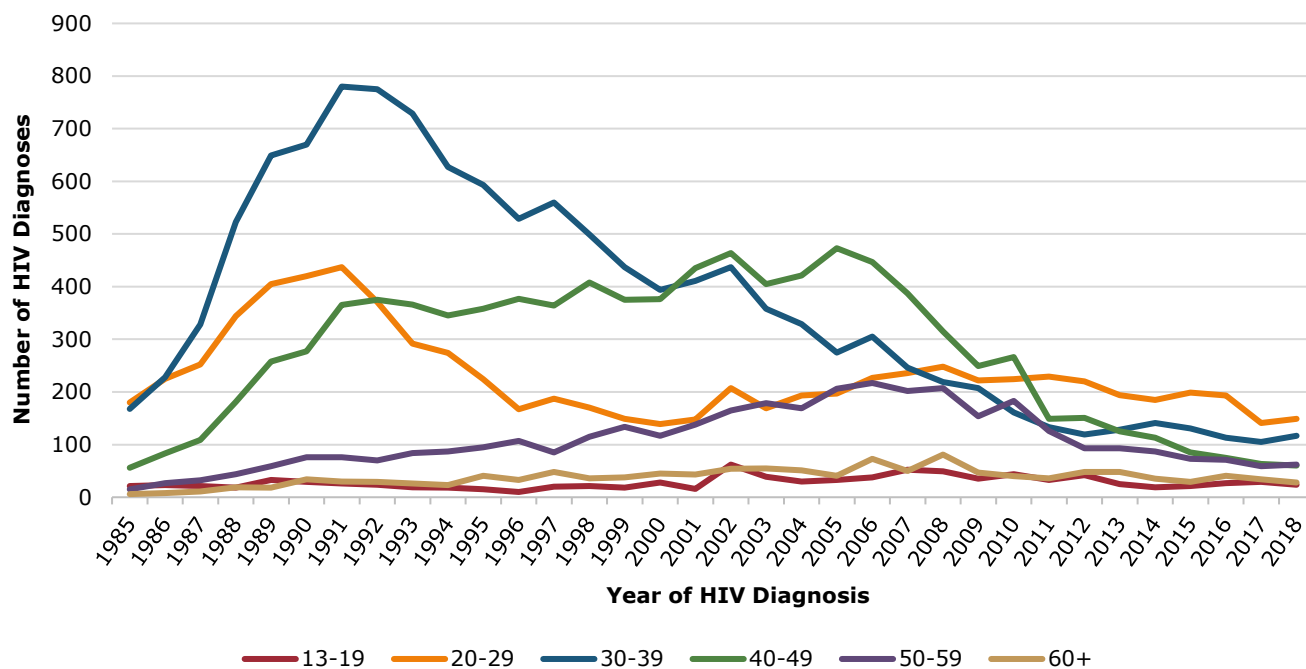
Non-Hispanic Other race not shown

Reported HIV Diagnoses Among People Aged 13+									
Year of HIV Diagnosis	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	235	7	3.0%	126	53.6%	95	40.4%	7	3.0%
1985	446	6	1.3%	278	62.3%	150	33.6%	12	2.7%
1986	594	18	3.0%	384	64.6%	180	30.3%	12	2.0%
1987	753	14	1.9%	512	68.0%	203	27.0%	24	3.2%
1988	1,129	14	1.2%	836	74.0%	255	22.6%	24	2.1%
1989	1,422	7	0.5%	1,123	79.0%	260	18.3%	32	2.3%
1990	1,506	21	1.4%	1,157	76.8%	293	19.5%	35	2.3%
1991	1,714	33	1.9%	1,384	80.7%	257	15.0%	40	2.3%
1992	1,644	21	1.3%	1,344	81.8%	236	14.4%	43	2.6%
1993	1,516	26	1.7%	1,241	81.9%	209	13.8%	40	2.6%
1994	1,374	23	1.7%	1,140	83.0%	171	12.4%	40	2.9%
1995	1,326	22	1.7%	1,081	81.5%	189	14.3%	34	2.6%
1996	1,223	14	1.1%	1,027	84.0%	142	11.6%	40	3.3%
1997	1,264	18	1.4%	1,015	80.3%	172	13.6%	59	4.7%
1998	1,249	19	1.5%	1,026	82.1%	162	13.0%	42	3.4%
1999	1,151	32	2.8%	917	79.7%	145	12.6%	57	5.0%
2000	1,099	23	2.1%	874	79.5%	138	12.6%	64	5.8%
2001	1,191	26	2.2%	975	81.9%	136	11.4%	54	4.5%
2002	1,389	33	2.4%	1,119	80.6%	153	11.0%	84	6.0%
2003	1,205	42	3.5%	939	77.9%	157	13.0%	67	5.6%
2004	1,193	35	2.9%	937	78.5%	155	13.0%	66	5.5%
2005	1,225	40	3.3%	967	78.9%	145	11.8%	73	6.0%
2006	1,307	59	4.5%	1,013	77.5%	155	11.9%	80	6.1%
2007	1,173	39	3.3%	925	78.9%	136	11.6%	73	6.2%
2008	1,119	51	4.6%	846	75.6%	155	13.9%	67	6.0%
2009	914	43	4.7%	693	75.8%	130	14.2%	48	5.3%
2010	918	47	5.1%	678	73.9%	120	13.1%	73	8.0%
2011	706	45	6.4%	503	71.2%	115	16.3%	43	6.1%
2012	673	40	5.9%	495	73.6%	91	13.5%	47	7.0%
2013	613	34	5.5%	447	72.9%	93	15.2%	39	6.4%
2014	580	32	5.5%	437	75.3%	67	11.6%	44	7.6%
2015	538	33	6.1%	394	73.2%	77	14.3%	34	6.3%
2016	520	37	7.1%	366	70.4%	94	18.1%	23	4.4%
2017	431	24	5.6%	307	71.2%	80	18.6%	20	4.6%
2018	440	27	6.1%	334	75.9%	64	14.5%	15	3.4%
Total	35,780	1,005	2.8%	27,840	77.8%	5,380	15.0%	1,555	4.3%

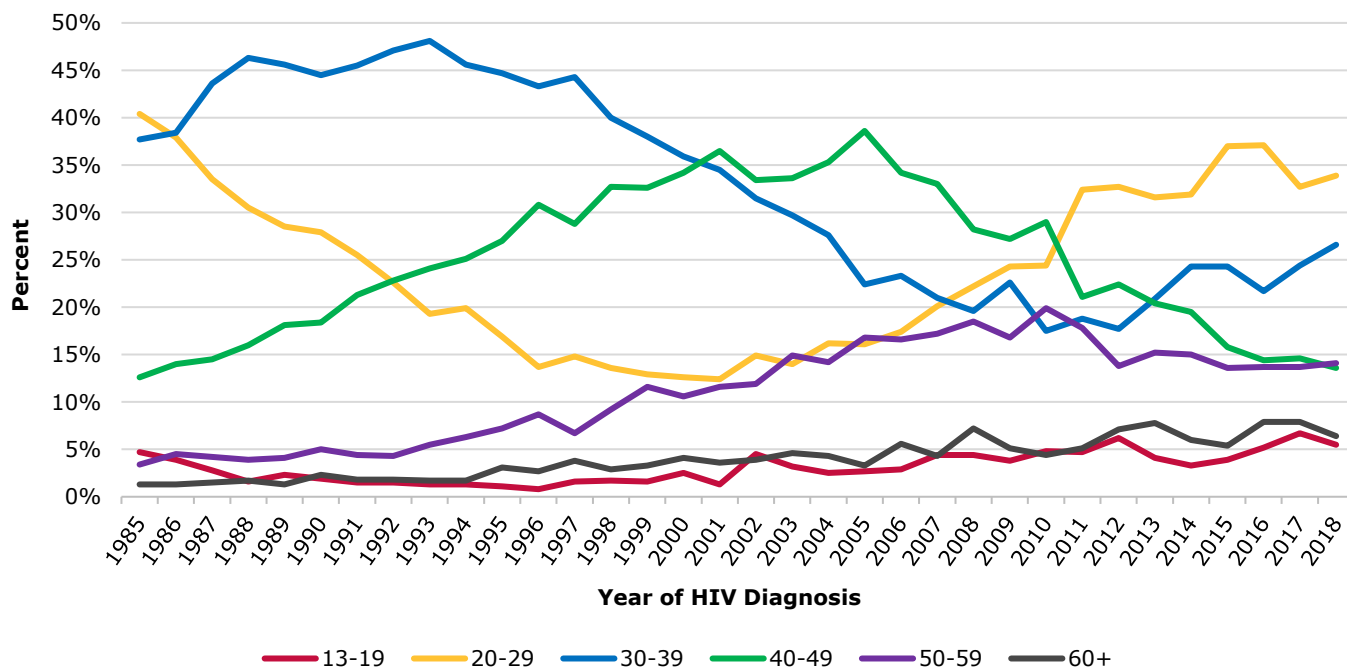
**Figure 6 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, 1985-2018, Reported through June 30, 2019**

Number and Percent by Age at HIV Diagnosis of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

**Reported HIV Diagnoses Among People Aged 13+ by Age at Diagnosis, 1985-2018, Reported through June 30, 2019**



**Reported HIV Diagnoses Among People Aged 13+ by Age at Diagnosis, 1985-2018, Reported through June 30, 2019**



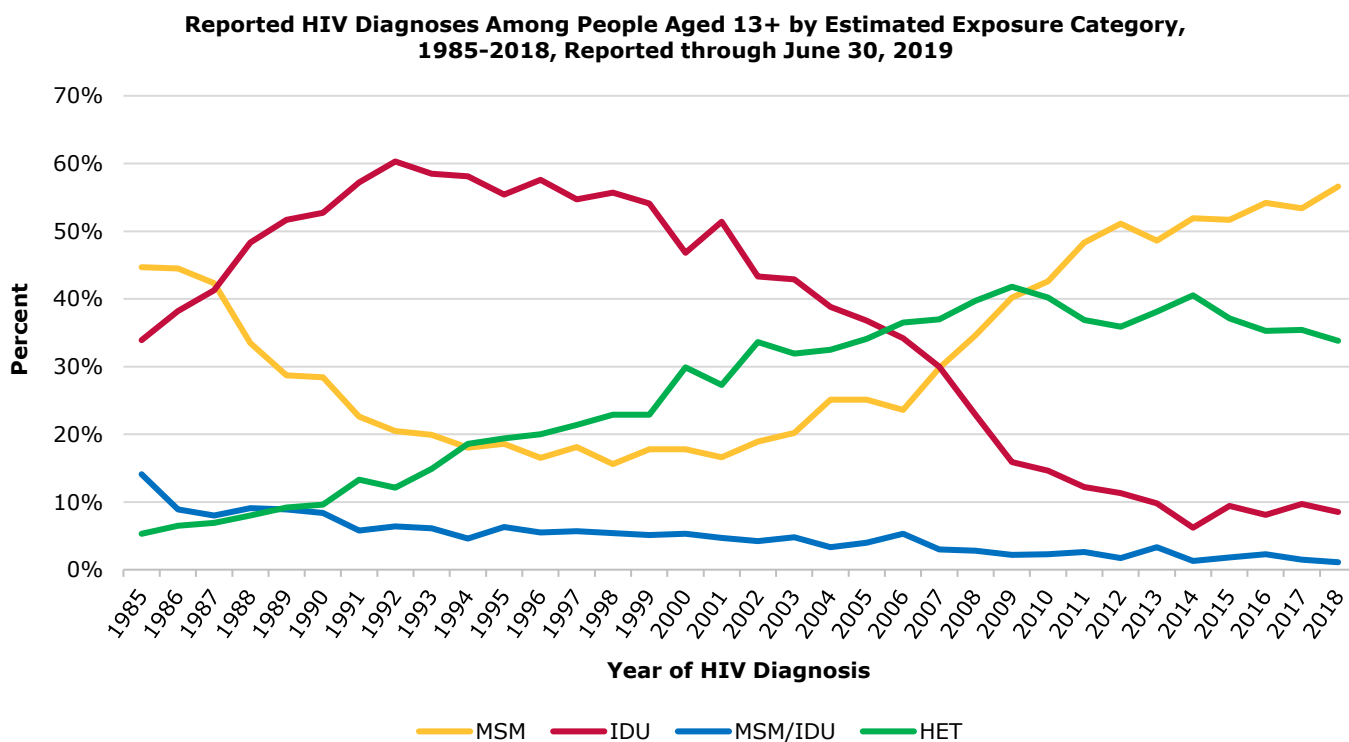
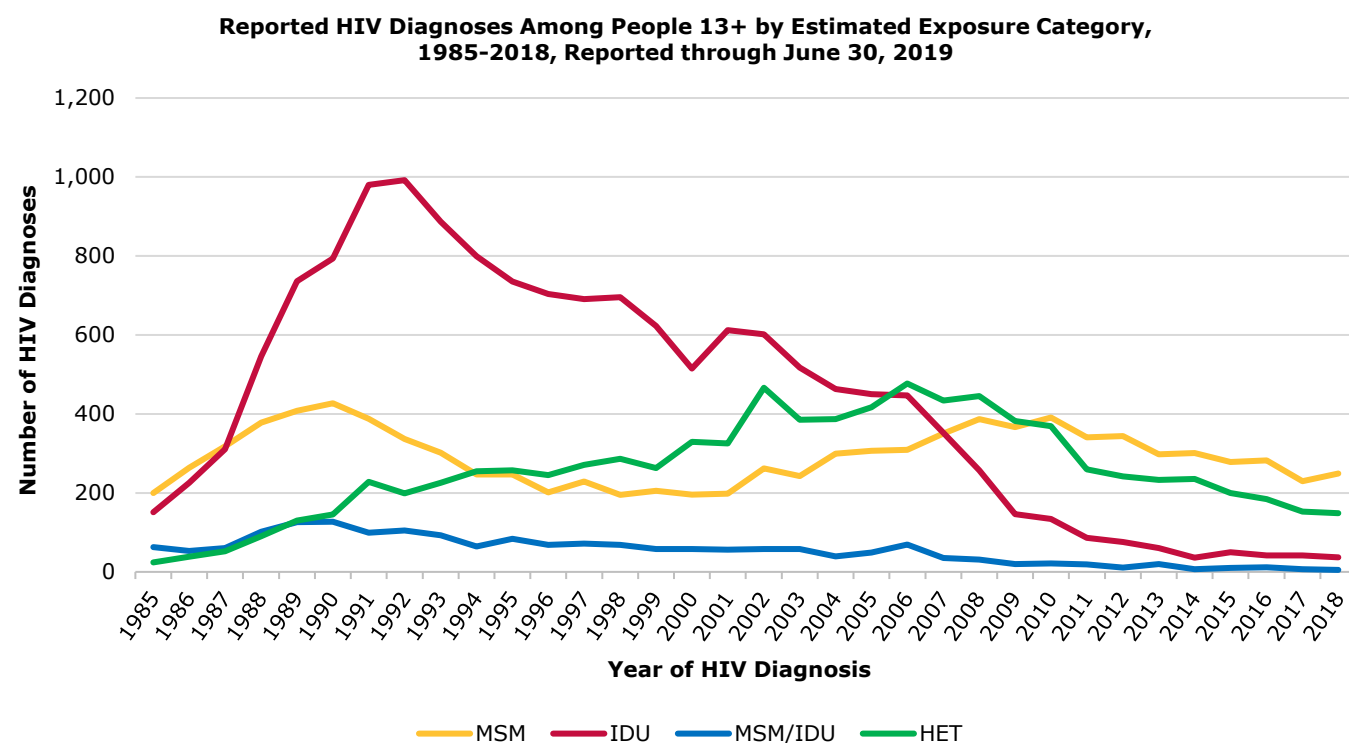


**Reported HIV Diagnoses Among People Aged 13+**

Year of HIV Diagnosis	No.	Age at HIV Diagnosis											
		13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	235	16	6.8%	101	43.0%	72	30.6%	31	13.2%	14	6.0%	1	0.4%
1985	446	21	4.7%	180	40.4%	168	37.7%	56	12.6%	15	3.4%	6	1.3%
1986	594	23	3.9%	225	37.9%	228	38.4%	83	14.0%	27	4.5%	8	1.3%
1987	753	21	2.8%	252	33.5%	328	43.6%	109	14.5%	32	4.2%	11	1.5%
1988	1,129	18	1.6%	344	30.5%	523	46.3%	181	16.0%	44	3.9%	19	1.7%
1989	1,422	33	2.3%	405	28.5%	649	45.6%	258	18.1%	59	4.1%	18	1.3%
1990	1,506	29	1.9%	420	27.9%	670	44.5%	277	18.4%	76	5.0%	34	2.3%
1991	1,714	26	1.5%	437	25.5%	780	45.5%	365	21.3%	76	4.4%	30	1.8%
1992	1,644	24	1.5%	371	22.6%	775	47.1%	375	22.8%	70	4.3%	29	1.8%
1993	1,516	19	1.3%	292	19.3%	729	48.1%	366	24.1%	84	5.5%	26	1.7%
1994	1,374	18	1.3%	274	19.9%	627	45.6%	345	25.1%	87	6.3%	23	1.7%
1995	1,326	15	1.1%	224	16.9%	593	44.7%	358	27.0%	95	7.2%	41	3.1%
1996	1,223	10	0.8%	167	13.7%	529	43.3%	377	30.8%	107	8.7%	33	2.7%
1997	1,264	20	1.6%	187	14.8%	560	44.3%	364	28.8%	85	6.7%	48	3.8%
1998	1,249	21	1.7%	170	13.6%	499	40.0%	408	32.7%	115	9.2%	36	2.9%
1999	1,151	18	1.6%	149	12.9%	437	38.0%	375	32.6%	134	11.6%	38	3.3%
2000	1,099	28	2.5%	139	12.6%	394	35.9%	376	34.2%	117	10.6%	45	4.1%
2001	1,191	16	1.3%	148	12.4%	411	34.5%	435	36.5%	138	11.6%	43	3.6%
2002	1,389	62	4.5%	207	14.9%	437	31.5%	464	33.4%	165	11.9%	54	3.9%
2003	1,205	39	3.2%	169	14.0%	358	29.7%	405	33.6%	179	14.9%	55	4.6%
2004	1,193	30	2.5%	193	16.2%	329	27.6%	421	35.3%	169	14.2%	51	4.3%
2005	1,225	33	2.7%	197	16.1%	275	22.4%	473	38.6%	206	16.8%	41	3.3%
2006	1,307	38	2.9%	227	17.4%	305	23.3%	447	34.2%	217	16.6%	73	5.6%
2007	1,173	52	4.4%	236	20.1%	246	21.0%	387	33.0%	202	17.2%	50	4.3%
2008	1,119	49	4.4%	248	22.2%	219	19.6%	315	28.2%	207	18.5%	81	7.2%
2009	914	35	3.8%	222	24.3%	207	22.6%	249	27.2%	154	16.8%	47	5.1%
2010	918	44	4.8%	224	24.4%	161	17.5%	266	29.0%	183	19.9%	40	4.4%
2011	706	33	4.7%	229	32.4%	133	18.8%	149	21.1%	126	17.8%	36	5.1%
2012	673	42	6.2%	220	32.7%	119	17.7%	151	22.4%	93	13.8%	48	7.1%
2013	613	25	4.1%	194	31.6%	128	20.9%	125	20.4%	93	15.2%	48	7.8%
2014	580	19	3.3%	185	31.9%	141	24.3%	113	19.5%	87	15.0%	35	6.0%
2015	538	21	3.9%	199	37.0%	131	24.3%	85	15.8%	73	13.6%	29	5.4%
2016	520	27	5.2%	193	37.1%	113	21.7%	75	14.4%	71	13.7%	41	7.9%
2017	431	29	6.7%	141	32.7%	105	24.4%	63	14.6%	59	13.7%	34	7.9%
2018	440	24	5.5%	149	33.9%	117	26.6%	60	13.6%	62	14.1%	28	6.4%
Total	35,780	978	2.7%	7,918	22.1%	12,496	34.9%	9,387	26.2%	3,721	10.4%	1,280	3.6%

**Figure 7 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019**

Number and Percent by Estimated Exposure Category<sup>§</sup> of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



Other exposure category not shown

§ Multiple imputation was used to estimate and adjust for missing exposure category.

Reported HIV Diagnoses Among People Aged 13+												
Year of HIV Diagnosis	No.	% with No Reported Exposure <sup>*</sup>	Estimated Exposure Category <sup>§</sup>									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	235	2.1%	131	55.7%	61	26.1%	26	10.9%	8	3.5%	9	3.8%
1985	446	4.3%	200	44.7%	151	33.9%	63	14.1%	24	5.3%	9	2.0%
1986	594	3.0%	264	44.5%	226	38.2%	53	8.9%	38	6.5%	12	2.0%
1987	753	2.9%	318	42.3%	311	41.3%	60	8.0%	52	6.9%	12	1.6%
1988	1,129	3.0%	378	33.5%	546	48.3%	102	9.1%	90	8.0%	13	1.2%
1989	1,422	2.6%	408	28.7%	736	51.7%	126	8.9%	130	9.2%	22	1.5%
1990	1,506	4.1%	427	28.4%	794	52.7%	127	8.4%	145	9.6%	13	0.9%
1991	1,714	3.7%	388	22.6%	980	57.2%	99	5.8%	228	13.3%	19	1.1%
1992	1,644	4.6%	337	20.5%	992	60.3%	105	6.4%	199	12.1%	12	0.7%
1993	1,516	2.8%	302	19.9%	887	58.5%	93	6.1%	226	14.9%	9	0.6%
1994	1,374	3.9%	247	18.0%	799	58.1%	64	4.6%	255	18.6%	9	0.7%
1995	1,326	4.1%	247	18.6%	735	55.4%	84	6.3%	257	19.4%	4	0.3%
1996	1,223	4.2%	201	16.5%	704	57.6%	68	5.5%	245	20.0%	5	0.4%
1997	1,264	6.2%	229	18.1%	691	54.7%	72	5.7%	271	21.4%	1	0.1%
1998	1,249	5.2%	195	15.6%	696	55.7%	68	5.4%	286	22.9%	4	0.3%
1999	1,151	7.1%	205	17.8%	623	54.1%	58	5.1%	263	22.9%	2	0.2%
2000	1,099	7.1%	196	17.8%	515	46.8%	58	5.3%	329	29.9%	1	0.1%
2001	1,191	7.8%	198	16.6%	612	51.4%	56	4.7%	325	27.3%	1	0.1%
2002	1,389	10.3%	262	18.9%	602	43.3%	58	4.2%	466	33.6%	1	0.1%
2003	1,205	9.5%	243	20.2%	517	42.9%	58	4.8%	385	31.9%	3	0.2%
2004	1,193	10.4%	299	25.1%	463	38.8%	39	3.3%	387	32.5%	5	0.4%
2005	1,225	14.4%	307	25.1%	450	36.8%	49	4.0%	417	34.1%	1	0.1%
2006	1,307	18.7%	309	23.6%	447	34.2%	69	5.3%	477	36.5%	5	0.4%
2007	1,173	19.6%	350	29.8%	352	30.0%	35	3.0%	434	37.0%	3	0.3%
2008	1,119	26.8%	387	34.6%	257	22.9%	31	2.8%	445	39.7%	0	0.0%
2009	914	27.5%	367	40.2%	146	15.9%	20	2.2%	382	41.8%	0	0.0%
2010	918	31.0%	391	42.6%	134	14.6%	21	2.3%	369	40.2%	3	0.3%
2011	706	25.9%	341	48.3%	86	12.2%	19	2.6%	260	36.9%	0	0.0%
2012	673	17.5%	344	51.1%	76	11.3%	11	1.7%	242	35.9%	0	0.0%
2013	613	11.3%	298	48.6%	60	9.8%	20	3.3%	233	38.1%	1	0.2%
2014	580	9.1%	301	51.9%	36	6.2%	7	1.3%	235	40.5%	1	0.2%
2015	538	5.6%	278	51.7%	50	9.4%	10	1.8%	200	37.1%	0	0.0%
2016	520	12.5%	282	54.2%	42	8.1%	12	2.3%	184	35.3%	0	0.0%
2017	431	10.9%	230	53.4%	42	9.7%	7	1.5%	153	35.4%	0	0.0%
2018	440	23.0%	249	56.6%	37	8.5%	5	1.1%	149	33.8%	0	0.0%
Total	35,780	9.7%	10,109	28.3%	14,856	41.5%	1,853	5.2%	8,789	24.6%	180	0.5%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

\*Percent with no reported exposure prior to multiple imputation adjustment.

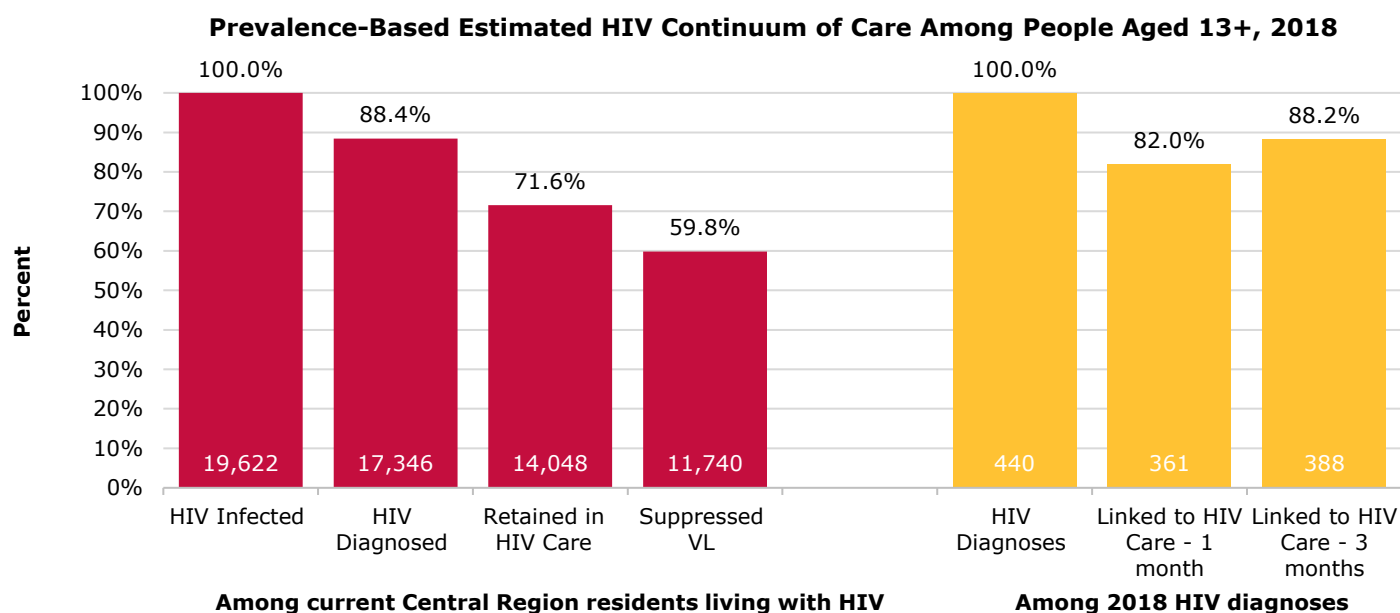
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

## Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.<sup>1</sup> utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

### Figure 8 – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Central Region Residents Aged 13+, Reported through June 30, 2019

The prevalence-based Central Region Engagement in HIV Care Cascades (below) apply the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2019, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of people living with HIV currently residing in the Central Region. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Central Region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.



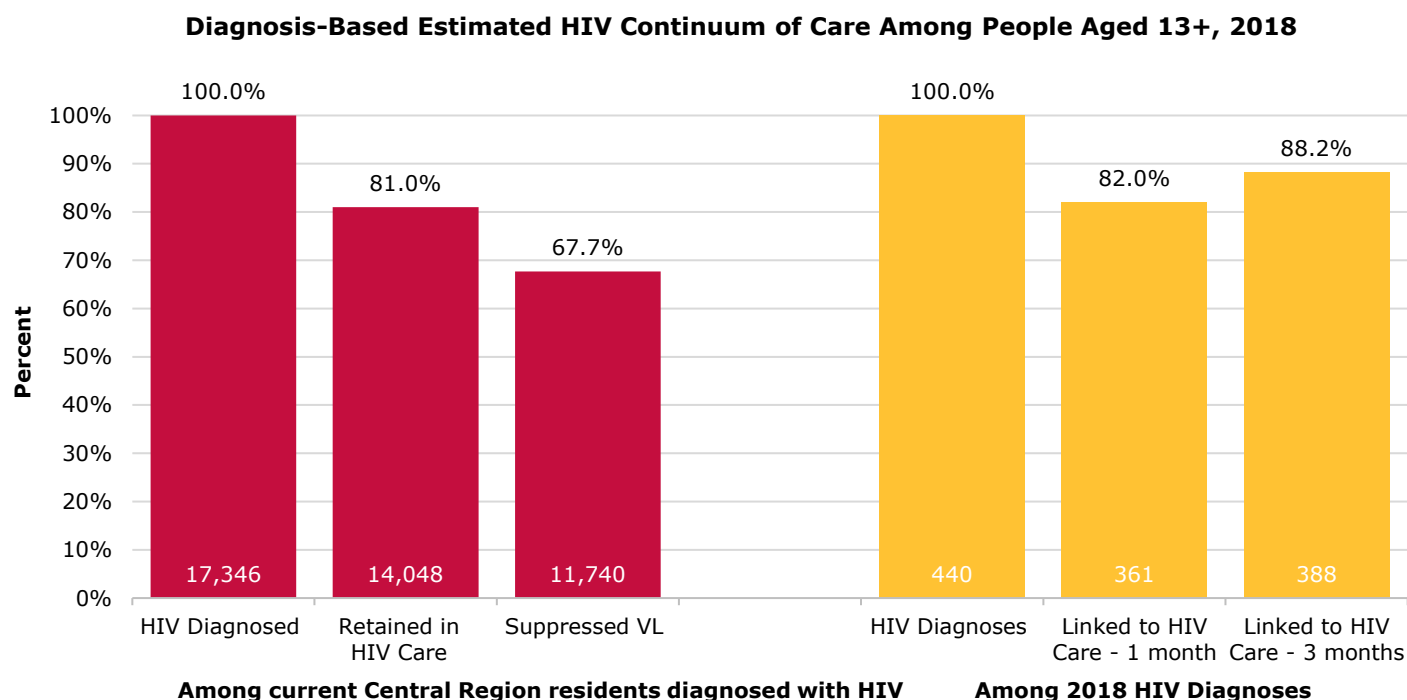
Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected	19,622	100.0%	New HIV Diagnoses	440	100.0%
HIV Diagnosed	17,346	88.4%	Linked to HIV Care – 1 Month	361	82.0%
Retained in HIV Care	14,048	71.6%	Linked to HIV Care – 3 Months	388	88.2%
Suppressed VL	11,740	59.8%			

<sup>1</sup> Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” Clin Infect Dis. 2011; 52 (6): 793-800.

<sup>2</sup> Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published March 2018.

## Figure 9 – Diagnosis-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Central Region Residents Aged 13+, Reported through June 30, 2019

The diagnosis-based Central Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Central Region residents to describe the number and percentage of persons living with diagnosed HIV in the Central Region on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	17,346	100.0%	New HIV Diagnoses	440	100.0%
Retained in HIV Care	14,048	81.0%	Linked to HIV Care – 1 Month	361	82.0%
Suppressed VL	11,740	67.7%	Linked to HIV Care – 3 Months	388	88.2%

## Section IV –Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Table 1 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		% with Test	Median Count
Anne Arundel	483,036	40	9.1%	8.3	92.5%	97.5%	37.5%	95.0%	380
Baltimore City	510,571	224	50.9%	43.9	78.6%	85.3%	19.2%	90.6%	407
Baltimore	699,848	120	27.3%	17.1	83.3%	88.3%	20.8%	90.0%	382
Carroll	143,269	7	1.6%	4.9	85.7%	85.7%	***	85.7%	431
Harford	214,532	18	4.1%	8.4	72.2%	88.9%	***	100.0%	439
Howard	268,234	31	7.0%	11.6	93.5%	96.8%	29.0%	96.8%	396
<b>Total</b>	2,319,489	440	100.0%	19.0	82.0%	88.2%	22.5%	91.6%	398

\*\*\* Data withheld due to low population counts and/or small numbers

Table 2 – Reported AIDS Diagnoses, Among People Aged 13+ During 2018, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Reported AIDS Diagnoses Among People Aged 13+				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Anne Arundel	483,036	32	12.4%	6.6	3.5	50.0%
Baltimore City	510,571	143	55.2%	28	7.4	30.1%
Baltimore	699,848	59	22.8%	8.4	5.6	45.8%
Carroll	143,269	5	1.9%	3.5	2.5	80.0%
Harford	214,532	7	2.7%	3.3	6.8	42.9%
Howard	268,234	13	5.0%	4.8	1.3	69.2%
<b>Total</b>	2,319,489	259	100.0%	11.2	6.1	39.4%

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2019

Jurisdiction of Residence	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Anne Arundel	483,036	1,251	7.0%	259.0	386	1,358	7.8%	281.1	356	8.6%
Baltimore City	510,571	12,120	68.2%	2,373.8	42	11,036	63.6%	2,161.5	46	-8.9%
Baltimore	699,848	3,186	17.9%	455.2	220	3,597	20.7%	514.0	195	12.9%
Carroll	143,269	146	0.8%	101.9	981	158	0.9%	110.3	907	8.2%
Harford	214,532	460	2.6%	214.4	466	516	3.0%	240.5	416	12.2%
Howard	268,234	609	3.4%	227.0	440	681	3.9%	253.9	394	11.8%
<b>Total</b>	2,319,489	17,772	100.0%	766.2	131	17,346	100.0%	747.8	134	-2.4%

**Table 4 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019**

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Anne Arundel	1,358	1,029	75.8%	617	8.3%	11.3%	17.0%	63.5%
Baltimore City	11,036	8,392	76.0%	594	10.3%	13.0%	15.7%	61.0%
Baltimore	3,597	2,741	76.2%	629	7.9%	11.4%	15.1%	65.6%
Carroll	158	114	72.2%	681	5.3%	13.2%	12.3%	69.3%
Harford	516	386	74.8%	598	8.5%	11.1%	19.2%	61.1%
Howard	681	517	75.9%	643	6.0%	13.3%	14.5%	66.2%
Total	17,346	13,179	76.0%	606	9.4%	12.5%	15.7%	62.4%

**Table 5 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019**

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Anne Arundel	1,358	1,043	76.8%	87.2%	10,450
Baltimore City	11,036	8,679	78.6%	85.4%	11,600
Baltimore	3,597	2,834	78.8%	88.4%	8,645
Carroll	158	113	71.5%	95.6%	40,700
Harford	516	390	75.6%	86.9%	14,900
Howard	681	529	77.7%	87.3%	4,330
<b>Total</b>	17,346	13,588	78.3%	86.4%	10,250

## Section V – People Living with Diagnosed HIV by Age

Table 6 – Reported HIV Diagnoses During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2019

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	% with Test	Median Count
<5 (Pediatric)	164,884	1	0.2%	0.6	***	***	***	***	***
5-12 (Pediatric)	268,165	1	0.2%	0.4	***	***	***	***	***
13-19	238,481	24	5.4%	10.1	95.8%	100.0%	***	100.0%	403
20-29	372,876	149	33.7%	40.0	81.2%	88.6%	14.1%	91.3%	438
30-39	387,026	117	26.5%	30.2	78.6%	86.3%	23.9%	94.0%	401
40-49	336,615	60	13.6%	17.8	80.0%	80.0%	28.3%	80.0%	287
50-59	384,590	62	14.0%	16.1	88.7%	91.9%	38.7%	95.2%	275
60+	599,901	28	6.3%	4.7	78.6%	92.9%	28.6%	92.9%	408
<b>Total</b>	<b>2,752,538</b>	<b>442</b>	<b>100.0%</b>	<b>16.1</b>	<b>82.1%</b>	<b>88.2%</b>	<b>22.4%</b>	<b>91.6%</b>	<b>403</b>

\*\*\* Data withheld due to low population counts and/or small numbers

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Population	Total People Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
<5 (Pediatric)	164,884	6	0.0%	3.6	27,481
5-12 (Pediatric)	268,165	20	0.1%	7.5	13,408
13-19	238,481	84	0.5%	35.2	2,839
20-29	372,876	1,461	8.4%	391.8	255
30-39	387,026	2,967	17.1%	766.6	130
40-49	336,615	3,361	19.3%	998.5	100
50-59	384,590	5,632	32.4%	1,464.4	68
60+	599,901	3,841	22.1%	640.3	156
<b>Total</b>	<b>2,752,538</b>	<b>17,372</b>	<b>100.0%</b>	<b>631.1</b>	<b>158</b>

Table 8 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	84	62	73.8%	693	0.0%	12.9%	22.6%	64.5%
20-29	1,461	1,088	74.5%	603	10.1%	9.8%	15.8%	64.2%
30-39	2,967	2,209	74.5%	620	9.6%	11.5%	16.3%	62.6%
40-49	3,361	2,511	74.7%	618	9.5%	12.9%	14.3%	63.3%
50-59	5,632	4,377	77.7%	598	9.7%	12.9%	15.4%	62.0%
60+	3,841	2,932	76.3%	595	8.6%	13.2%	16.7%	61.5%
<b>Total</b>	17,346	13,179	76.0%	606	9.4%	12.5%	15.7%	62.4%



**Table 9 – Viral Load Test Results During 2018 for People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019**

Age on December 31, 2018	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	84	65	77.4%	81.5%	3,192
20-29	1,461	1,129	77.3%	73.8%	11,320
30-39	2,967	2,239	75.5%	81.8%	11,619
40-49	3,361	2,589	77.0%	85.5%	17,581
50-59	5,632	4,527	80.4%	88.3%	7,860
60+	3,841	3,039	79.1%	92.5%	8,535
<b>Total</b>	17,346	13,588	78.3%	86.4%	10,250

## Section VI – People Aged 13+ Living with Diagnosed HIV by Demographics

Table 10 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	% with Test
Sex at Birth									
Male	1,105,359	329	74.8%	29.8	82.7%	87.8%	23.7%	91.2%	375
Female	1,214,130	111	25.2%	9.1	80.2%	89.2%	18.9%	92.8%	478
Gender									
Male	1,105,359	321	73.0%	29.0	82.9%	87.9%	24.0%	91.3%	374
Female	1,214,130	110	25.0%	9.1	80.9%	89.1%	19.1%	92.7%	478
Transgender Female	--	8	1.8%	--	***	***	***	***	***
Transgender Male	--	1	0.2%	--	***	***	***	***	***
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	121,978	27	6.1%	22.1	100.0%	100.0%	25.9%	96.3%	410
Non-Hispanic	2,197,511	413	93.9%	18.8	80.9%	87.4%	22.3%	91.3%	395
American Indian/Alaska Native, only	5,854	1	0.2%	17.1	***	***	***	***	***
Asian, only	137,052	6	1.4%	4.4	***	***	***	***	***
Black, only	677,157	334	75.9%	49.3	81.1%	87.7%	20.4%	91.0%	404
Native Hawaiian/Other Pacific Islander, only	1,175	0	0.0%	0.0	--	--	--	--	--
White, only	1,333,960	64	14.5%	4.8	76.6%	82.8%	25.0%	90.6%	371
Multiracial/Other	42,313	8	1.8%	18.9	87.5%	100.0%	***	100.0%	573
Total	2,319,489	440	100.0%	19.0	82.0%	88.2%	22.5%	91.6%	398
Country of Birth									
United States	2,037,215	379	86.1%	18.6	79.4%	86.5%	22.2%	90.8%	389
Foreign-Born	268,344	43	9.8%	16.0	97.7%	97.7%	32.6%	97.7%	388
Africa	--	28	6.4%	--	96.4%	96.4%	28.6%	96.4%	467
Asia	--	5	1.1%	--	100.0%	100.0%	***	100.0%	443
Caribbean	--	2	0.5%	--	***	***	***	***	***
Central America	--	6	1.4%	--	100.0%	100.0%	***	100.0%	282
Other	--	2	0.5%	--	***	***	***	***	***
Unknown	--	18	4.1%	--	100.0%	100.0%	***	94.4%	503
Total	2,305,559	440	100.0%	19.1	82.0%	88.2%	22.5%	91.6%	398

Note. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

\*\*\* Data withheld due to low population counts and/or small numbers

**Table 11 – People Aged 13+ Living with Diagnosed HIV Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019**

Demographic Characteristics	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
Sex at Birth					
Male	1,105,359	11,375	65.6%	1,029.1	97
Female	1,214,130	5,971	34.4%	491.8	203
Gender					
Male	1,105,359	11,169	64.4%	1,010.4	99
Female	1,214,130	5,958	34.3%	490.7	204
Transgender Female	--	206	1.2%	--	--
Transgender Male	--	13	0.1%	--	--
Another Gender Identity	--	0	0.0%	--	--
Race/Ethnicity					
Hispanic	121,978	797	4.6%	653.4	153
Non-Hispanic	2,197,511	16,549	95.4%	753.1	133
American Indian/Alaska Native, only	5,854	9	0.1%	153.7	650
Asian, only	137,052	97	0.6%	70.8	1,413
Black, only	677,157	13,182	76.0%	1,946.7	51
Native Hawaiian/Other Pacific Islander, only	1,175	1	0.0%	85.1	1,175
White, only	1,333,960	2,255	13.0%	169.0	592
Multiracial/Other	42,313	1,005	5.8%	2,375.2	42
Total	2,319,489	17,346	100.0%	747.8	134
Country of Birth					
United States	2,037,215	15,977	92.1%	784.3	128
Foreign-Born	268,344	922	5.3%	343.6	291
Africa	--	500	2.9%	--	--
Asia	--	108	0.6%	--	--
Caribbean	--	73	0.4%	--	--
Central America	--	154	0.9%	--	--
Other	--	87	0.5%	--	--
Unknown	--	447	2.6%	--	--
Total	2,305,559	17,346	100.0%	752.4	133

*Note.* Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

**Table 12 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019**

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	11,375	8,487	74.6%	587	9.5%	12.9%	16.9%	60.7%
Female	5,971	4,692	78.6%	645	9.2%	11.7%	13.5%	65.6%
Gender								
Male	11,169	8,323	74.5%	586	9.5%	12.9%	17.0%	60.6%
Female	5,958	4,683	78.6%	645	9.2%	11.7%	13.5%	65.6%
Transgender Female	206	164	79.6%	626	9.1%	11.6%	14.0%	65.2%
Transgender Male	13	9	69.2%	628	0.0%	0.0%	22.2%	77.8%
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	797	591	74.2%	602	8.6%	13.0%	15.9%	62.4%
Non-Hispanic	16,549	12,588	76.1%	606	9.4%	12.4%	15.7%	62.4%
American Indian/Alaska Native, only	9	***	***	***	***	***	***	***
Asian, only	97	69	71.1%	516	4.3%	18.8%	21.7%	55.1%
Black, only	13,182	10,038	76.1%	603	9.7%	12.6%	15.7%	62.1%
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***
White, only	2,255	1,660	73.6%	632	7.3%	11.2%	15.7%	65.7%
Multiracial/Other	1,005	816	81.2%	602	11.0%	12.5%	15.4%	61.0%
Country of Birth								
United States	15,977	12,190	76.3%	605	9.8%	12.4%	15.6%	62.2%
Foreign-Born	922	658	71.4%	610	4.7%	13.5%	16.9%	64.9%
Africa	500	361	72.2%	601	4.2%	13.6%	17.5%	64.8%
Asia	108	74	68.5%	566	2.7%	17.6%	20.3%	59.5%
Caribbean	73	50	68.5%	704	6.0%	6.0%	18.0%	70.0%
Central America	154	113	73.4%	594	6.2%	17.7%	14.2%	61.9%
Other	87	60	69.0%	697	6.7%	6.7%	13.3%	73.3%
Unknown	447	331	74.0%	634	4.5%	11.5%	16.9%	67.1%
Total	17,346	13,179	76.0%	606	9.4%	12.5%	15.7%	62.4%

\*\*\* Data withheld due to low population counts and/or small numbers

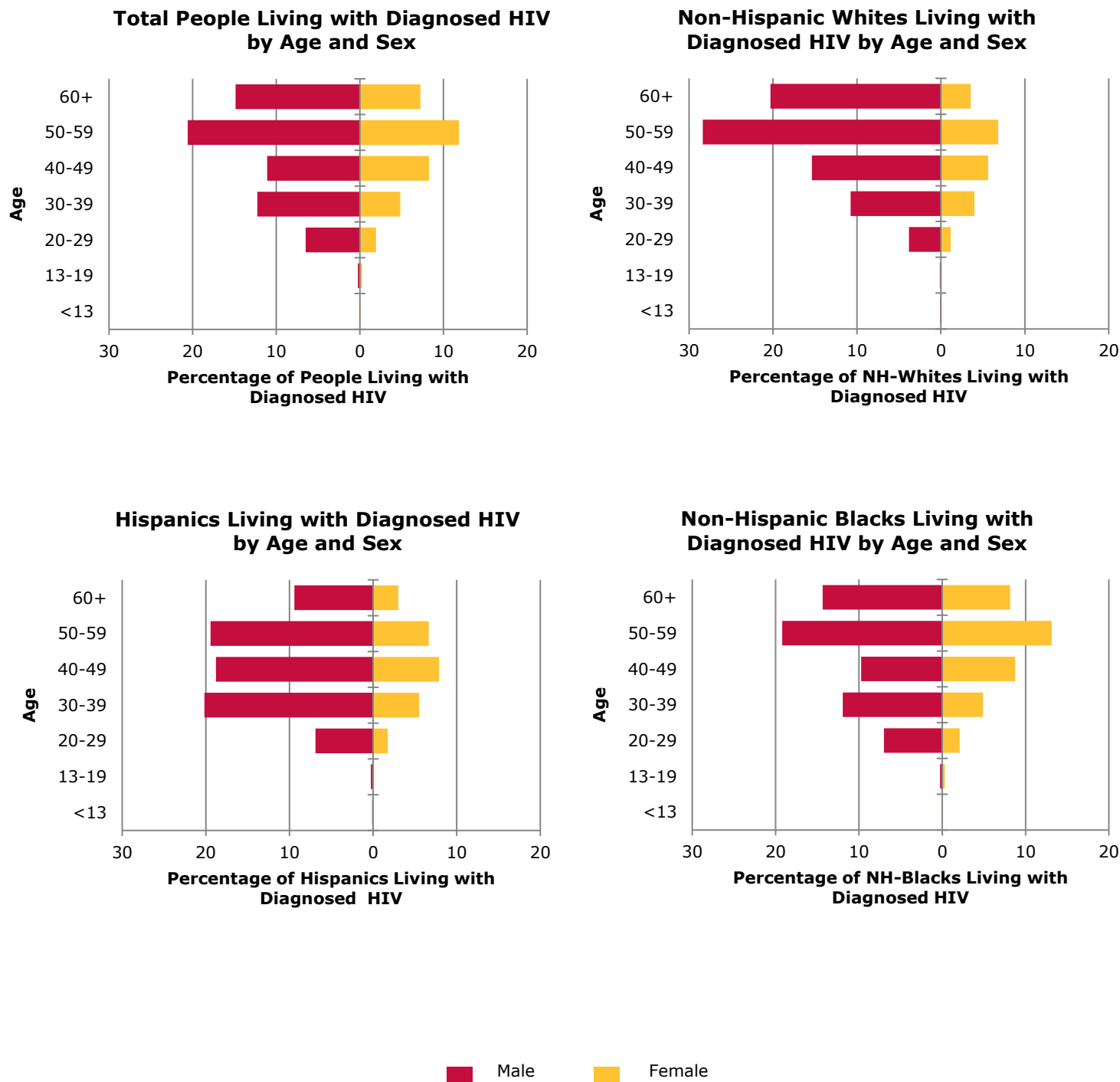
**Table 13 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019**

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Male	11,375	8,740	76.8%	86.9%	10,520
Female	5,971	4,848	81.2%	85.5%	10,080
Gender					
Male	11,169	8,570	76.7%	87.2%	10,786
Female	5,958	4,837	81.2%	85.5%	10,080
Transgender Female	206	170	82.5%	74.1%	7,610
Transgender Male	13	11	84.6%	81.8%	7,319
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	797	606	76.0%	88.1%	12,819
Non-Hispanic	16,549	12,982	78.4%	86.3%	10,080
American Indian/Alaska Native, only	9	***	***	***	***
Asian, only	97	73	75.3%	94.5%	96,665
Black, only	13,182	10,346	78.5%	85.3%	9,560
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***
White, only	2,255	1,728	76.6%	91.4%	17,268
Multiracial/Other	1,005	830	82.6%	87.6%	12,995
Country of Birth					
United States	15,977	12,568	78.7%	85.8%	10,300
Foreign-Born	922	678	73.5%	93.8%	9,643
Africa	500	367	73.4%	94.0%	10,550
Asia	108	79	73.1%	92.4%	2,574
Caribbean	73	53	72.6%	96.2%	40,850
Central America	154	117	76.0%	93.2%	11,119
Other	87	62	71.3%	93.5%	1,277
Unknown	447	342	76.5%	92.1%	9,320
Total	17,346	13,588	78.3%	86.4%	10,250

\*\*\* Data withheld due to low population counts and/or small numbers

## Section VII – People Living with Diagnosed HIV by Expanded Demographics

Figure 10 – Population Pyramids of Total People Living with Diagnosed HIV, by Age on December 31, 2018, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019



**Table 14 – Total Males Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019**

<b>Total Males Living with Diagnosed HIV</b>						
<b>Age on December 31, 2018</b>		<b>Race/Ethnicity</b>				<b>Total Males by Age Group</b>
		<b>Hispanic</b>	<b>Non-Hispanic Black, only</b>	<b>Non-Hispanic White, only</b>	<b>Non-Hispanic Other Race</b>	
<13 (Pediatric)	Population	23,644	70,317	100,837	26,079	220,879
	Number	1	10	2	0	13
	Rate	4.2	14.2	2.0	0.0	5.9
	Ratio (1 in X)	23,644	7,032	50,419	--	16,991
13-19	Population	9,547	39,517	59,533	12,876	121,471
	Number	2	34	3	1	40
	Rate	20.9	86.0	5.0	7.8	32.9
	Ratio (1 in X)	4,773	1,162	19,844	12,876	3,037
20-29	Population	13,035	59,294	97,884	17,021	187,234
	Number	55	923	86	62	1,126
	Rate	421.9	1,556.6	87.9	364.3	601.4
	Ratio (1 in X)	237	64	1,138	275	166
30-39	Population	15,988	51,162	102,719	17,622	187,491
	Number	161	1,576	243	148	2,128
	Rate	1,007.0	3,080.4	236.6	839.9	1,135.0
	Ratio (1 in X)	99	32	423	119	88
40-49	Population	12,166	45,660	88,210	15,597	161,633
	Number	150	1,285	347	142	1,924
	Rate	1,232.9	2,814.3	393.4	910.4	1,190.4
	Ratio (1 in X)	81	36	254	110	84
50-59	Population	7,174	50,064	114,854	11,441	183,533
	Number	155	2,534	640	246	3,575
	Rate	2,160.6	5,061.5	557.2	2,150.2	1,947.9
	Ratio (1 in X)	46	20	179	47	51
60+	Population	5,369	59,231	185,572	13,825	263,997
	Number	75	1,895	458	154	2,582
	Rate	1,396.9	3,199.3	246.8	1,113.9	978.0
	Ratio (1 in X)	72	31	405	90	102
Total Males by Race/Ethnicity	Population	86,923	375,245	749,609	114,461	1,326,238
	Number	599	8,257	1,779	753	11,388
	Rate	689.1	2,200.4	237.3	657.9	858.7
	Ratio (1 in X)	145	45	421	152	116

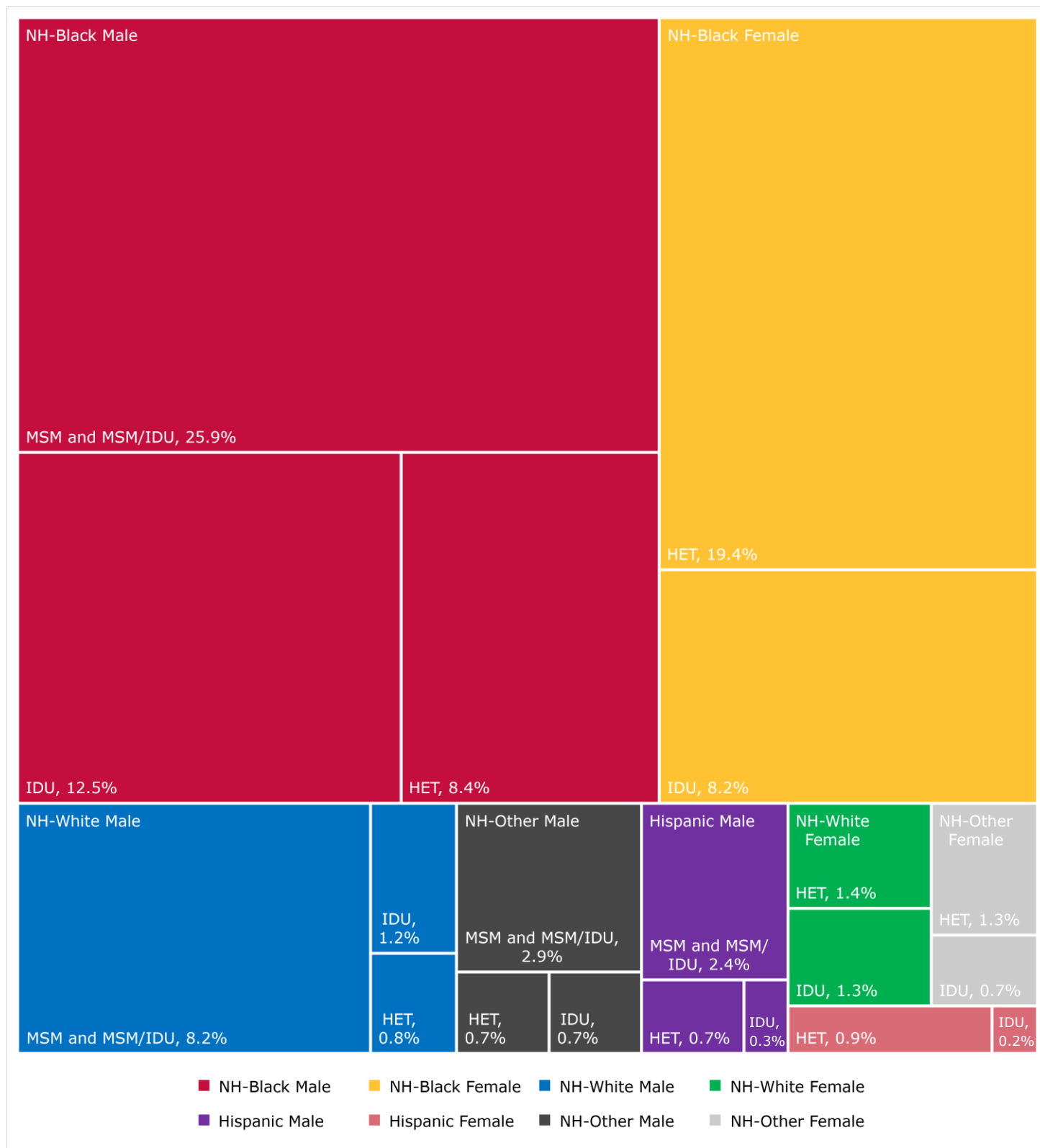
**Table 15 – Total Females Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019**

		Total Females Living with Diagnosed HIV				
Age on December 31, 2018		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	22,214	68,274	96,309	25,373	212,170
	Number	0	12	0	1	13
	Rate	0.0	17.6	0.0	3.9	6.1
	Ratio (1 in X)	--	5,690	--	25,373	16,321
13-19	Population	9,144	38,736	56,272	12,858	117,010
	Number	1	41	1	1	44
	Rate	10.9	105.8	1.8	7.8	37.6
	Ratio (1 in X)	9,144	945	56,272	12,858	2,659
20-29	Population	12,166	62,641	93,310	17,525	185,642
	Number	14	277	26	18	335
	Rate	115.1	442.2	27.9	102.7	180.5
	Ratio (1 in X)	869	226	3,589	974	554
30-39	Population	13,675	63,380	102,268	20,212	199,535
	Number	44	648	90	57	839
	Rate	321.8	1,022.4	88.0	282.0	420.5
	Ratio (1 in X)	311	98	1,136	355	238
40-49	Population	10,629	56,209	90,636	17,508	174,982
	Number	63	1,157	127	90	1,437
	Rate	592.7	2,058.4	140.1	514.1	821.2
	Ratio (1 in X)	169	49	714	195	122
50-59	Population	6,711	61,226	120,071	13,049	201,057
	Number	53	1,736	154	114	2,057
	Rate	789.7	2,835.4	128.3	873.6	1,023.1
	Ratio (1 in X)	127	35	780	114	98
60+	Population	6,375	90,037	222,632	16,860	335,904
	Number	24	1,076	80	79	1,259
	Rate	376.5	1,195.1	35.9	468.6	374.8
	Ratio (1 in X)	266	84	2,783	213	267
Total Females by Race/Ethnicity	Population	80,914	440,503	781,498	123,385	1,426,300
	Number	199	4,947	478	360	5,984
	Rate	245.9	1,123.0	61.2	291.8	419.5
	Ratio (1 in X)	407	89	1,635	343	238



## Section VIII – HIV Exposure Category

Figure 11 – Proportion of Total People Aged 13+ Living with Diagnosed HIV, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, Reported through June 30, 2019



Note. Other exposure category and perinatal transmission not shown (<2 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

**Table 16 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019**

Estimated or Reported Exposure Category	Reported HIV Diagnoses Among People Aged 13+						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	% with Test	Median Count
Male-to-male Sexual Contact (MSM)	249	56.6%	81.5%	87.0%	20.6%	90.8%	391
Injection Drug Use (IDU)	37	8.5%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	5	1.1%	***	***	***	***	***
Heterosexual Contact (HET)	149	33.8%	86.5%	92.1%	25.4%	93.2%	428
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
<b>Total</b>	<b>440</b>	<b>100.0%</b>	<b>82.0%</b>	<b>88.2%</b>	<b>22.5%</b>	<b>91.6%</b>	<b>398</b>
<b>Male Estimated or Reported Exposure Category</b>							
Male-to-male Sexual Contact (MSM)	249	75.7%	81.5%	87.0%	20.6%	90.8%	391
Injection Drug Use (IDU)	22	6.7%	***	***	***	***	***
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	5	1.5%	***	***	***	***	***
Heterosexual Contact (HET)	53	16.1%	90.9%	94.1%	35.3%	94.3%	290
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
<b>Total</b>	<b>329</b>	<b>100.0%</b>	<b>82.7%</b>	<b>87.8%</b>	<b>23.7%</b>	<b>91.2%</b>	<b>375</b>
<b>Female Estimated or Reported Exposure Category</b>							
Injection Drug Use (IDU)	15	13.7%	55.9%	78.3%	***	94.1%	508
Heterosexual Contact (HET)	96	86.3%	84.0%	90.9%	19.9%	92.6%	478
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
<b>Total</b>	<b>111</b>	<b>100.0%</b>	<b>80.2%</b>	<b>89.2%</b>	<b>18.9%</b>	<b>92.8%</b>	<b>478</b>

*Note.* Data for 2018 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

\*\*\* Data withheld due to low population counts and/or small numbers

**Table 17 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019**

<b>Estimated or Reported Exposure Category</b>	<b>Total People Aged 13+ Living with Diagnosed HIV</b>	
	<b>No.</b>	<b>% of Total</b>
Male-to-male Sexual Contact (MSM)	6,052	34.9%
Injection Drug Use (IDU)	4,352	25.1%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	777	4.5%
Heterosexual Contact (HET)	5,849	33.7%
Perinatal Transmission	246	1.4%
Other Exposure	28	0.2%
No Estimated or Reported Exposure	41	0.2%
<b>Total</b>	<b>17,346</b>	<b>100.0%</b>

<b>Male Estimated or Reported Exposure Category</b>		
Male-to-male Sexual Contact (MSM)	6,052	53.2%
Injection Drug Use (IDU)	2,554	22.5%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	777	6.8%
Heterosexual Contact (HET)	1,851	16.3%
Perinatal Transmission	103	0.9%
Other Exposure	17	0.1%
No Estimated or Reported Exposure	20	0.2%
<b>Total</b>	<b>11,375</b>	<b>100.0%</b>

<b>Female Estimated or Reported Exposure Category</b>		
Injection Drug Use (IDU)	1,798	30.1%
Heterosexual Contact (HET)	3,998	67.0%
Perinatal Transmission	143	2.4%
Other Exposure	11	0.2%
No Estimated or Reported Exposure	21	0.4%
<b>Total</b>	<b>5,971</b>	<b>100.0%</b>

*Note.* Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

**Table 18 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, and Reported through June 30, 2019**

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MSM)	374	46.9%	3,927	29.8%	1,312	58.2%
Injection Drug Use (IDU)	92	11.6%	3,588	27.2%	423	18.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	34	4.2%	579	4.4%	103	4.6%
Heterosexual Contact (HET)	288	36.1%	4,823	36.6%	395	17.5%
Perinatal Transmission	4	0.5%	218	1.7%	10	0.4%
Other Exposure	1	0.1%	13	0.1%	12	0.5%
No Estimated or Reported Exposure	4	0.5%	34	0.3%	1	0.0%
<b>Total</b>	<b>797</b>	<b>100.0%</b>	<b>13,182</b>	<b>100.0%</b>	<b>2,256</b>	<b>100.0%</b>
<b>Male Estimated or Reported Exposure Category</b>						
Male-to-male Sexual Contact (MSM)	374	62.5%	3,927	47.6%	1,312	73.8%
Injection Drug Use (IDU)	58	9.7%	2,174	26.4%	201	11.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	34	5.6%	579	7.0%	103	5.8%
Heterosexual Contact (HET)	128	21.3%	1,461	17.7%	144	8.1%
Perinatal Transmission	2	0.3%	87	1.1%	6	0.3%
Other Exposure	1	0.2%	5	0.1%	10	0.6%
No Estimated or Reported Exposure	2	0.3%	15	0.2%	1	0.1%
<b>Total</b>	<b>599</b>	<b>100.0%</b>	<b>8,248</b>	<b>100.0%</b>	<b>1,777</b>	<b>100.0%</b>
<b>Female Estimated or Reported Exposure Category</b>						
Injection Drug Use (IDU)	35	17.4%	1,415	28.7%	221	46.3%
Heterosexual Contact (HET)	160	80.6%	3,362	68.1%	251	52.5%
Perinatal Transmission	2	1.0%	131	2.7%	4	0.8%
Other Exposure	0	0.0%	8	0.2%	2	0.4%
No Estimated or Reported Exposure	2	1.0%	19	0.4%	0	0.0%
<b>Total</b>	<b>199</b>	<b>100.0%</b>	<b>4,935</b>	<b>100.0%</b>	<b>478</b>	<b>100.0%</b>

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

**Table 19 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019**

Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MSM)	6,052	4,554	75.2%	629	6.6%	11.0%	16.0%	66.5%
Injection Drug Use (IDU)	4,352	3,383	77.7%	546	14.3%	14.9%	15.7%	55.0%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	777	604	77.8%	555	11.9%	12.0%	18.4%	57.7%
Heterosexual Contact (HET)	5,849	4,414	75.5%	635	7.6%	12.2%	14.9%	65.4%
Perinatal Transmission	246	179	72.8%	471	21.2%	13.4%	18.4%	46.9%
Other Exposure	28	21	75.0%	482	19.0%	14.3%	19.0%	47.6%
No Estimated or Reported Exposure	41	24	58.5%	495	20.8%	12.5%	16.7%	50.0%
<b>Total</b>	17,346	13,179	76.0%	606	9.4%	12.5%	15.7%	62.4%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

**Table 20 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019**

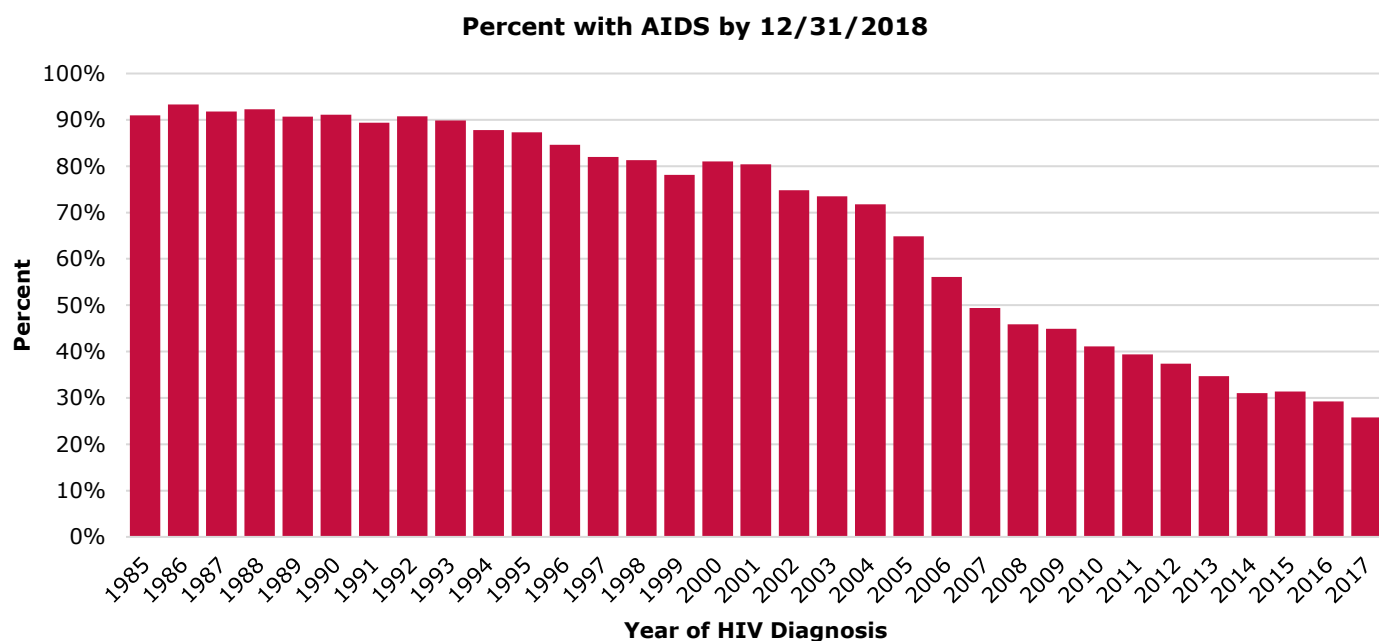
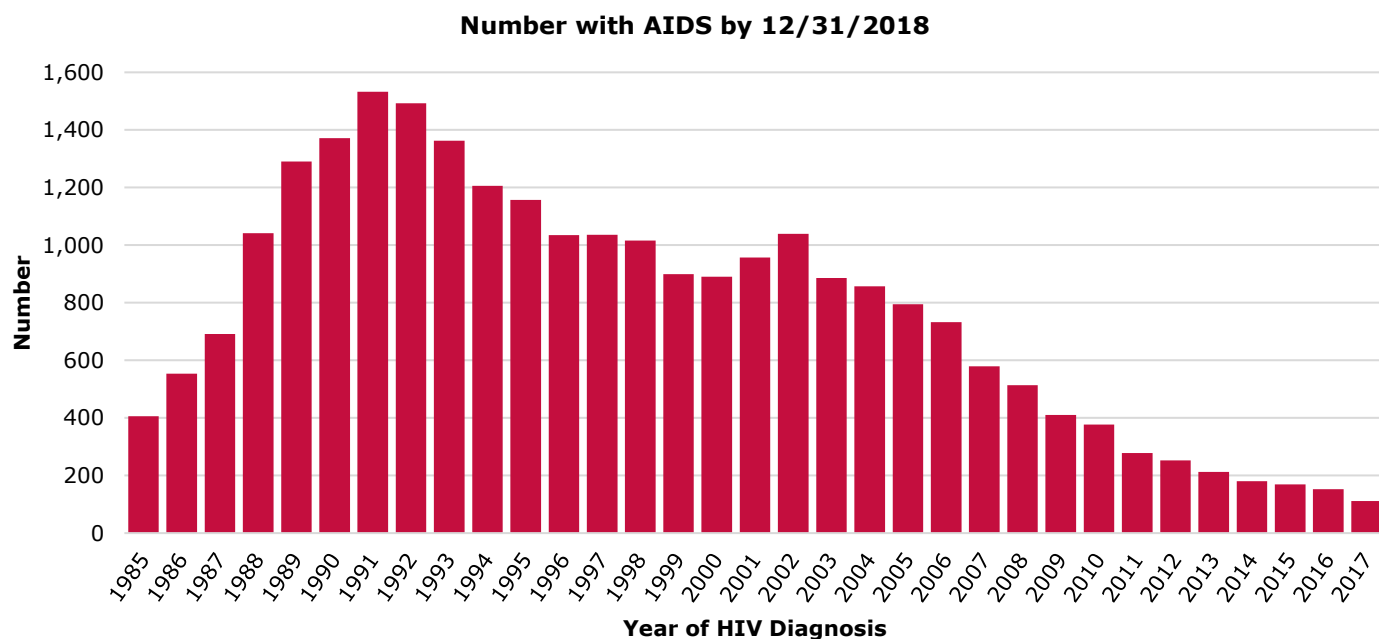
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	6,052	4,709	77.8%	87.5%	12,900
Injection Drug Use (IDU)	4,352	3,472	79.8%	85.0%	12,200
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	777	615	79.2%	87.2%	5,740
Heterosexual Contact (HET)	5,849	4,552	77.8%	87.0%	8,280
Perinatal Transmission	246	193	78.5%	70.5%	14,800
Other Exposure	28	21	75.0%	95.2%	11,190
No Estimated or Reported Exposure	41	26	63.4%	57.7%	8,550
<b>Total</b>	17,346	13,588	78.3%	86.4%	10,250

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

## Section IX – Disease Progression and Mortality

**Figure 12 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2017, Reported through June 30, 2019**

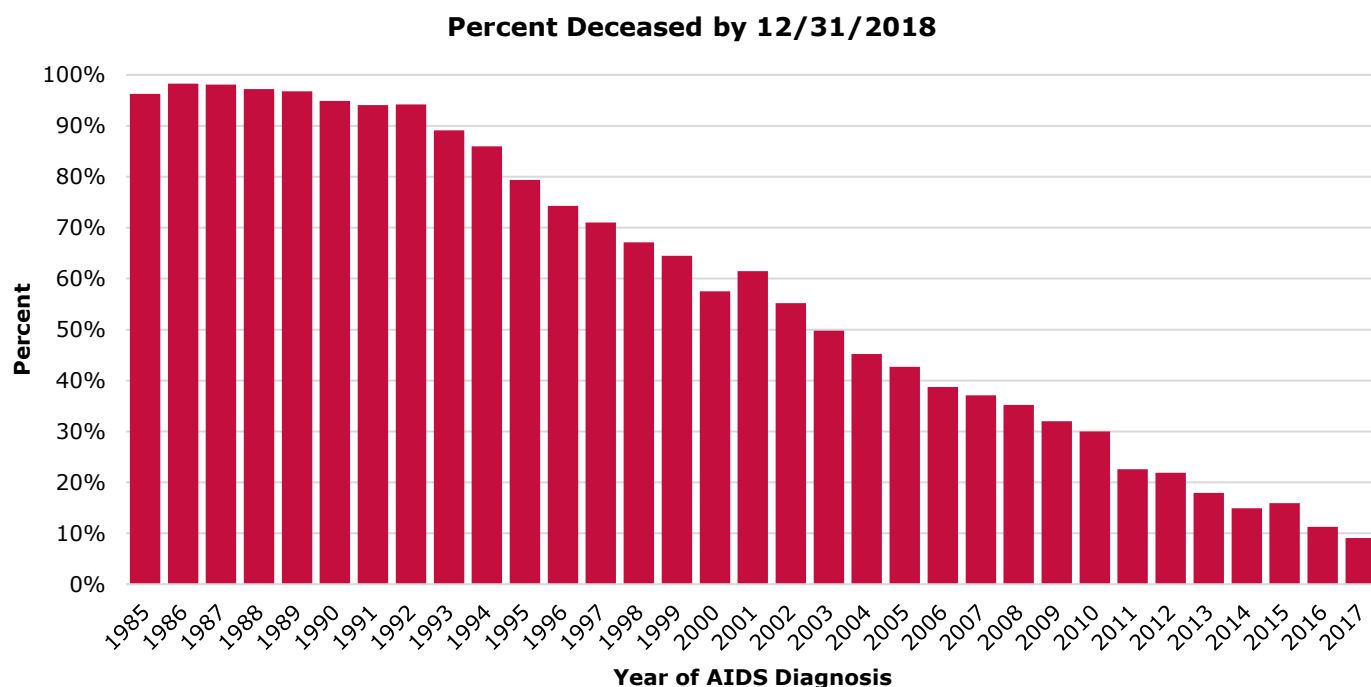
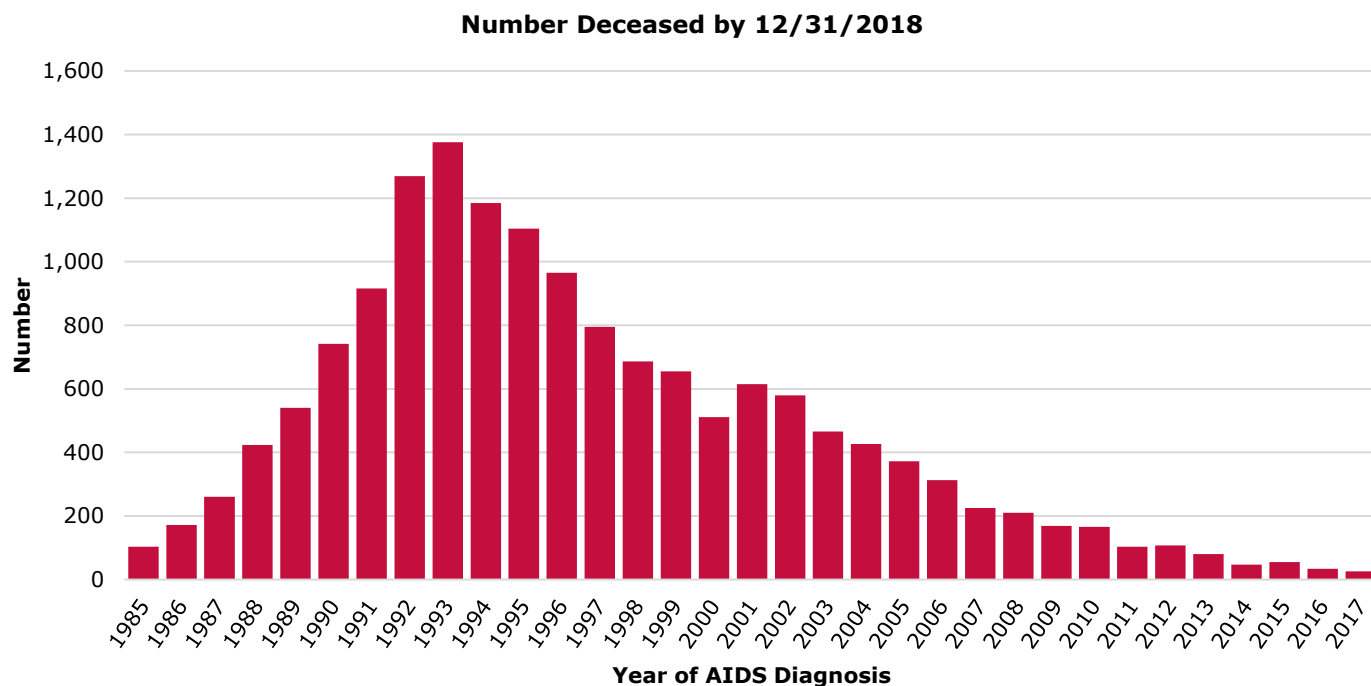
Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, (Reported HIV Diagnoses Among People Aged 13+), Number of People Aged 13+ with Diagnosed HIV with an AIDS Diagnosis by December 31, 2018 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ by December 31, 2018, the Average Years from HIV Diagnosis to AIDS Diagnosis for People with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2017, Reported through June 30, 2019



Reported HIV Diagnoses Among People Aged 13+									
Year of HIV Diagnosis	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis				
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years	
<1985	235	229	97.4%	7.1	34.0%	34.0%	37.4%	68.9%	
1985	446	406	91.0%	6.6	25.8%	27.4%	35.2%	74.4%	
1986	594	554	93.3%	5.6	32.8%	33.8%	46.0%	80.1%	
1987	753	691	91.8%	4.6	33.6%	37.2%	54.4%	82.5%	
1988	1,129	1,042	92.3%	3.9	38.1%	41.9%	63.8%	85.8%	
1989	1,422	1,290	90.7%	3.6	38.3%	43.8%	67.3%	83.3%	
1990	1,506	1,372	91.1%	3.1	43.9%	50.8%	73.4%	85.2%	
1991	1,714	1,533	89.4%	2.7	46.5%	56.0%	73.6%	84.1%	
1992	1,644	1,493	90.8%	2.7	50.7%	58.9%	75.6%	84.4%	
1993	1,516	1,363	89.9%	2.2	54.4%	62.5%	76.8%	85.6%	
1994	1,374	1,206	87.8%	2.4	53.6%	61.4%	74.2%	82.6%	
1995	1,326	1,157	87.3%	2.3	56.8%	62.5%	72.5%	82.2%	
1996	1,223	1,035	84.6%	2.0	59.4%	64.1%	71.5%	80.2%	
1997	1,264	1,036	82.0%	2.2	54.3%	59.2%	68.5%	77.1%	
1998	1,249	1,016	81.3%	2.1	55.9%	59.7%	68.3%	76.6%	
1999	1,151	899	78.1%	1.8	56.0%	60.0%	68.3%	74.8%	
2000	1,099	890	81.0%	1.9	55.8%	60.0%	69.7%	77.3%	
2001	1,191	957	80.4%	1.8	58.1%	62.0%	71.1%	76.5%	
2002	1,389	1,039	74.8%	1.9	53.1%	56.4%	64.0%	70.8%	
2003	1,205	886	73.5%	1.7	53.7%	57.7%	63.6%	70.4%	
2004	1,193	857	71.8%	1.8	51.2%	55.3%	61.9%	68.7%	
2005	1,225	795	64.9%	1.7	45.8%	49.0%	55.8%	62.9%	
2006	1,307	733	56.1%	1.9	37.9%	40.2%	47.4%	54.0%	
2007	1,173	579	49.4%	2.3	29.3%	32.5%	40.2%	47.7%	
2008	1,119	514	45.9%	1.9	28.3%	31.7%	39.4%	45.3%	
2009	914	410	44.9%	1.8	28.0%	31.0%	39.1%	--	
2010	918	377	41.1%	1.8	25.7%	28.4%	35.9%	--	
2011	706	278	39.4%	1.4	26.6%	30.7%	35.6%	--	
2012	673	252	37.4%	1.0	28.2%	30.5%	36.0%	--	
2013	613	213	34.7%	0.7	28.7%	30.2%	34.6%	--	
2014	580	180	31.0%	0.7	24.8%	27.6%	--	--	
2015	538	169	31.4%	0.5	26.0%	29.0%	--	--	
2016	520	152	29.2%	0.4	25.4%	27.9%	--	--	
2017	431	111	25.8%	0.2	24.4%	--	--	--	
Total	35,340	25,714	72.8%	2.5	44.0%	48.6%	59.3%	68.6%	

**Figure 13 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2017,  
Reported through June 30, 2019**

Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis Among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2018 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) Among People Aged 13+ by December 31, 2018, the Average Years from AIDS Diagnosis to Death for People that have Died, and the Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses Among People Aged 13+ Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2017, Reported through June 30, 2019





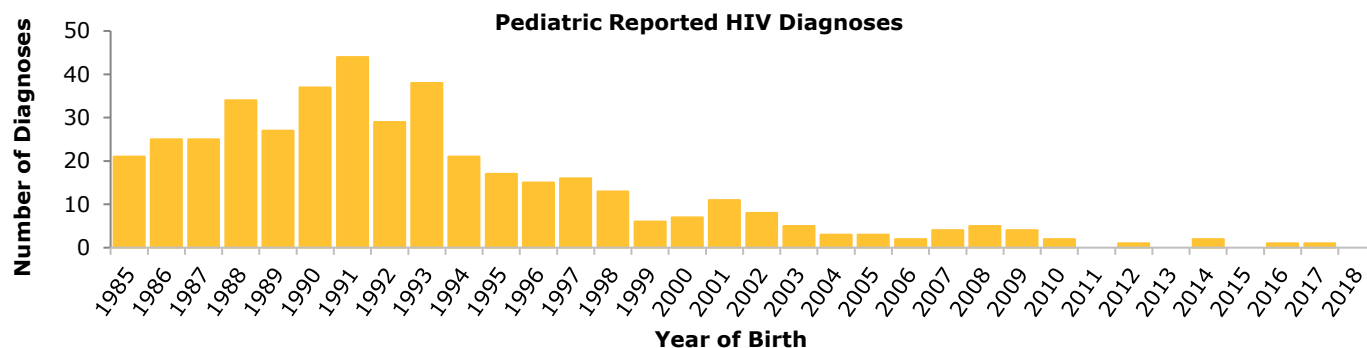
Year of AIDS Diagnosis	Reported AIDS Diagnoses Among People Aged 13+							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<b>&lt;1985</b>	76	72	94.7%	2.5	52.6%	32.9%	15.8%	13.2%
<b>1985</b>	107	103	96.3%	1.9	43.0%	22.4%	9.3%	7.5%
<b>1986</b>	175	172	98.3%	2.6	54.3%	36.0%	14.9%	8.6%
<b>1987</b>	265	260	98.1%	2.2	61.9%	33.2%	11.3%	5.3%
<b>1988</b>	435	423	97.2%	2.5	59.3%	39.5%	14.3%	6.9%
<b>1989</b>	558	540	96.8%	2.7	60.9%	39.2%	15.8%	8.1%
<b>1990</b>	782	742	94.9%	3.0	65.9%	46.4%	20.1%	11.6%
<b>1991</b>	973	916	94.1%	2.9	67.7%	46.2%	18.1%	12.1%
<b>1992</b>	1,347	1,269	94.2%	3.2	70.3%	48.7%	20.0%	13.8%
<b>1993</b>	1,545	1,376	89.1%	3.9	77.5%	55.1%	32.1%	20.8%
<b>1994</b>	1,378	1,185	86.0%	4.1	77.1%	58.1%	37.7%	23.7%
<b>1995</b>	1,391	1,104	79.4%	5.1	78.5%	66.2%	49.2%	35.2%
<b>1996</b>	1,298	965	74.3%	5.6	81.9%	74.7%	57.2%	41.1%
<b>1997</b>	1,119	795	71.0%	5.9	85.3%	77.3%	60.7%	44.1%
<b>1998</b>	1,023	686	67.1%	5.9	87.1%	80.2%	64.0%	47.2%
<b>1999</b>	1,015	655	64.5%	5.7	87.1%	79.8%	64.1%	48.6%
<b>2000</b>	889	511	57.5%	5.1	85.8%	80.2%	64.8%	52.5%
<b>2001</b>	1,000	615	61.5%	5.0	85.5%	76.7%	62.0%	49.7%
<b>2002</b>	1,050	580	55.2%	5.5	88.2%	82.6%	70.1%	56.7%
<b>2003</b>	935	466	49.8%	4.3	83.7%	78.0%	67.0%	57.6%
<b>2004</b>	945	427	45.2%	4.5	87.5%	82.9%	72.2%	62.0%
<b>2005</b>	871	372	42.7%	4.6	88.4%	83.5%	74.1%	64.8%
<b>2006</b>	808	313	38.7%	4.0	88.4%	83.7%	74.4%	64.5%
<b>2007</b>	606	225	37.1%	3.8	88.3%	84.8%	76.1%	64.9%
<b>2008</b>	597	210	35.2%	3.3	88.9%	83.9%	74.9%	65.5%
<b>2009</b>	528	169	32.0%	3.4	90.7%	86.7%	77.7%	--
<b>2010</b>	553	166	30.0%	3.2	90.2%	87.3%	79.9%	--
<b>2011</b>	455	103	22.6%	2.8	93.8%	90.8%	82.2%	--
<b>2012</b>	489	107	21.9%	2.1	90.4%	88.3%	80.8%	--
<b>2013</b>	448	80	17.9%	2.1	94.2%	90.2%	83.3%	--
<b>2014</b>	316	47	14.9%	1.0	91.1%	87.3%	--	--
<b>2015</b>	345	55	15.9%	1.0	90.4%	87.2%	--	--
<b>2016</b>	302	34	11.3%	0.4	91.1%	88.7%	--	--
<b>2017*</b>	287	26	9.1%	0.6	94.1%	--	--	--
<b>Total</b>	24,911	15,769	63.3%	4.2	81.6%	70.9%	55.1%	44.7%

\*2017 AIDS deaths are preliminary

## Section X – Pediatrics

**Figure 14 – Trends in Reported HIV Diagnoses Among People Aged <13, 1985-2018, Reported through June 30, 2019**

Number of Pediatric HIV Diagnoses, Age <13 at HIV Diagnosis, (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Children with Diagnosed HIV, Age <13 at HIV Diagnosis, and Not Reported to have Died as of December 31<sup>st</sup> of Each Year (Total Living Pediatric Diagnoses) from 1985 through 2018, as Reported by Name through June 30, 2019



Year	Pediatric Reported HIV Diagnoses				Total Living Pediatric Diagnoses Alive on December 31 <sup>st</sup> of Each Year
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	
<1985	25	2	1	0	--
1985	21	7	5	1	9
1986	25	8	6	4	13
1987	25	15	10	5	23
1988	34	23	15	4	42
1989	27	29	19	5	66
1990	37	36	16	5	98
1991	44	38	26	8	127
1992	29	47	29	9	165
1993	38	45	25	12	198
1994	21	31	19	12	217
1995	17	19	15	12	223
1996	15	20	12	14	230
1997	16	10	6	6	234
1998	13	14	10	3	244
1999	6	14	6	4	254
2000	7	9	2	0	263
2001	11	9	8	3	268
2002	8	5	4	4	270
2003	5	2	2	2	269
2004	3	5	2	3	272
2005	3	1	1	0	274
2006	2	6	3	2	279
2007	4	31	6	4	306
2008	5	8	7	3	311
2009	4	6	3	2	316
2010	2	1	7	4	313
2011	0	2	5	4	312
2012	1	2	3	3	311
2013	0	1	9	1	312
2014	2	2	3	0	315
2015	0	0	2	3	313
2016	1	1	4	2	309
2017	1	1	2	3	307
2018	0	2	5	0	309
<b>Total</b>	<b>452</b>	<b>452</b>	<b>298</b>	<b>147</b>	<b>--</b>

**Table 21 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019**

Jurisdiction of Current Residence	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Anne Arundel	1	3.8%
Baltimore City	13	50.0%
Baltimore	7	26.9%
Carroll	2	7.7%
Harford	2	7.7%
Howard	1	3.8%
<b>Total</b>	26	100.0%

**Table 22 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2019**

Demographic Characteristic	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
<b>Sex at Birth</b>		
Male	13	50.0%
Female	13	50.0%
<b>Race/Ethnicity</b>		
<b>Hispanic</b>	1	3.8%
<b>Non-Hispanic</b>	25	96.2%
American Indian/Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	22	84.6%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	2	7.7%
Multiracial/Other	1	3.8%
<b>Total</b>	26	100.0%

## Glossary of Terms

**Age at AIDS Diagnosis:** Age group at time of initial AIDS diagnosis.

**Age at HIV Diagnosis:** Age group at time of initial HIV diagnosis.

**Age on [date]:** Age group of people living with diagnosed HIV on the specified date.

**Another Gender Identity:** All other gender identities or gender expressions.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

**CD4 With Test:** Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

**Corrections:** Residence in a state or federal prison. Does not include local jails and detention centers.

**Current Residence:** Jurisdiction of residence from the most recent report since January 1, 2009.

**First CD4 Test Result Median Count:** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**First CD4 Test Result Percent with Test:** Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

**Gender Expression:** People's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

**Gender Identity:** Refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

**Jurisdiction of Current Residence:** Jurisdiction of residence from the most recent report since January 1, 2009.

**Jurisdiction of Residence:** Jurisdiction of residence at diagnosis or current residence.

**Jurisdiction of Residence at AIDS Diagnosis:** Jurisdiction of residence at time of initial AIDS diagnosis.

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

**Jurisdiction of Residence at HIV Diagnosis:** Jurisdiction of residence at time of initial HIV diagnosis.

**Late HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

**Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

**People Aged 13+ Living with Diagnosed HIV:** Reported HIV diagnoses, age 13 years or older as of December 31<sup>st</sup> of the specified year and not reported to have died as of December 31<sup>st</sup> of the specified year.

**People Living with Diagnosed HIV:** Reported HIV diagnoses not reported to have died as of December 31<sup>st</sup> of the specified year.

**Mean Years from HIV Diagnosis:** Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for people living with a reported AIDS diagnosis.

**Mean Years from AIDS diagnosis to AIDS Death:** Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

**Median Count:** Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

**Median Unsuppressed:** Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

**Percent Change:** The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

**Percent Alive by Years after AIDS Diagnosis:** Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

**Percent Late HIV Diagnosis:** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

**Percent Suppressed:** Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

**Percent with AIDS by Years after HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

**Perinatal HIV Transmission Percent:** Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures by year of birth.

**Perinatal HIV Transmission Rate:** Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000 by year of birth.

**Population:** Population estimate for July 1, 2018.

**Population Age 13+:** Population age 13 years or older, estimate for July 1, 2018.

**Rate:** Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year.

**Reported AIDS Deaths:** Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

**Reported AIDS Diagnoses:** Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

**Reported AIDS Diagnoses Among People Aged 13+:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

**Reported HIV Diagnoses:** Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

**Reported HIV Diagnoses Among People Aged 13+:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Residence at Diagnosis:** Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

**Retained in HIV Care:** HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

**Suppressed Viral Load:** HIV diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

**Total People Aged 13+ Living with Diagnosed HIV:** Reported HIV diagnoses, age 13 years or older as of December 31<sup>st</sup> of the specified year not reported to have died as of December 31<sup>st</sup> of the specified year.

**Total People Aged <13 Living with Diagnosed HIV:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Total People Living with Diagnosed HIV:** Reported HIV diagnoses not reported to have died as of December 31<sup>st</sup> of the specified year.

**Transgender Female:** A person whose sex assigned at birth is male but who identify as a woman.

**Transgender Male:** A person whose sex assigned at birth is female but who identify as a man.

**Viral Load With Test:** Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

**Women of Childbearing Age Living with Diagnosed HIV:** Reported HIV diagnoses among women of childbearing age (13-49 years old).